

PORTLAND HARBOR RI/FS  
REMEDIAL INVESTIGATION REPORT

**APPENDIX D2.1**  
**CONTAMINANT AND PHYSICAL PARAMETERS IN  
SEDIMENT TRAPS—FIGURES**

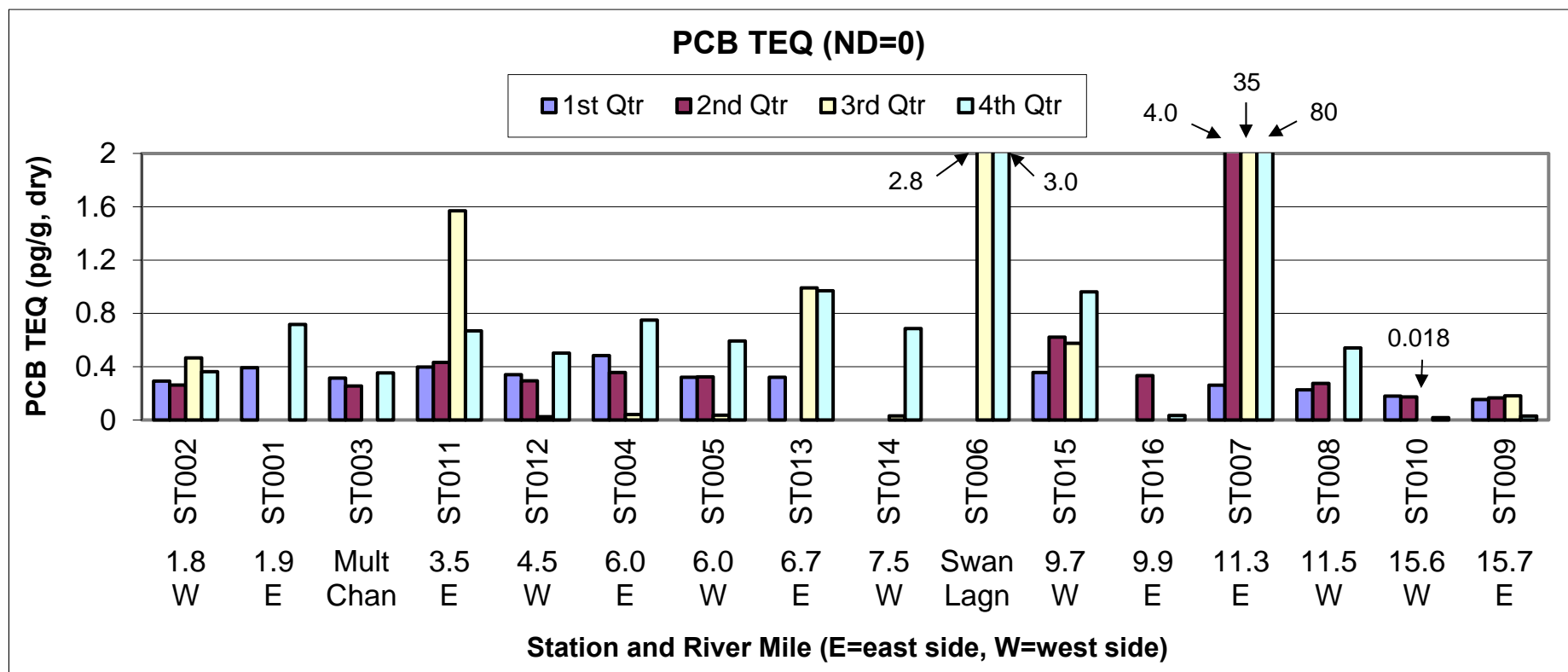
**DRAFT FINAL**

June 12, 2015

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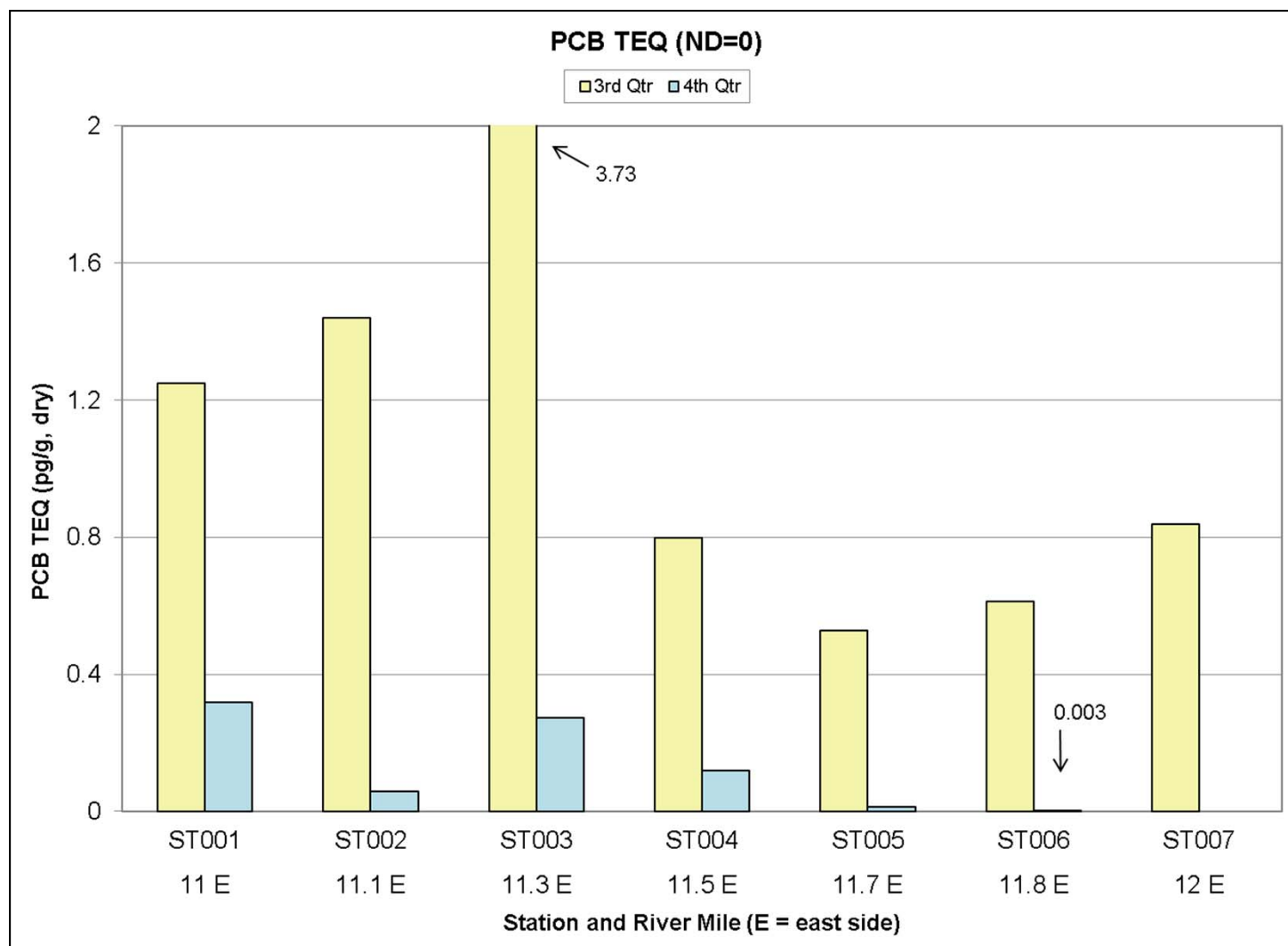
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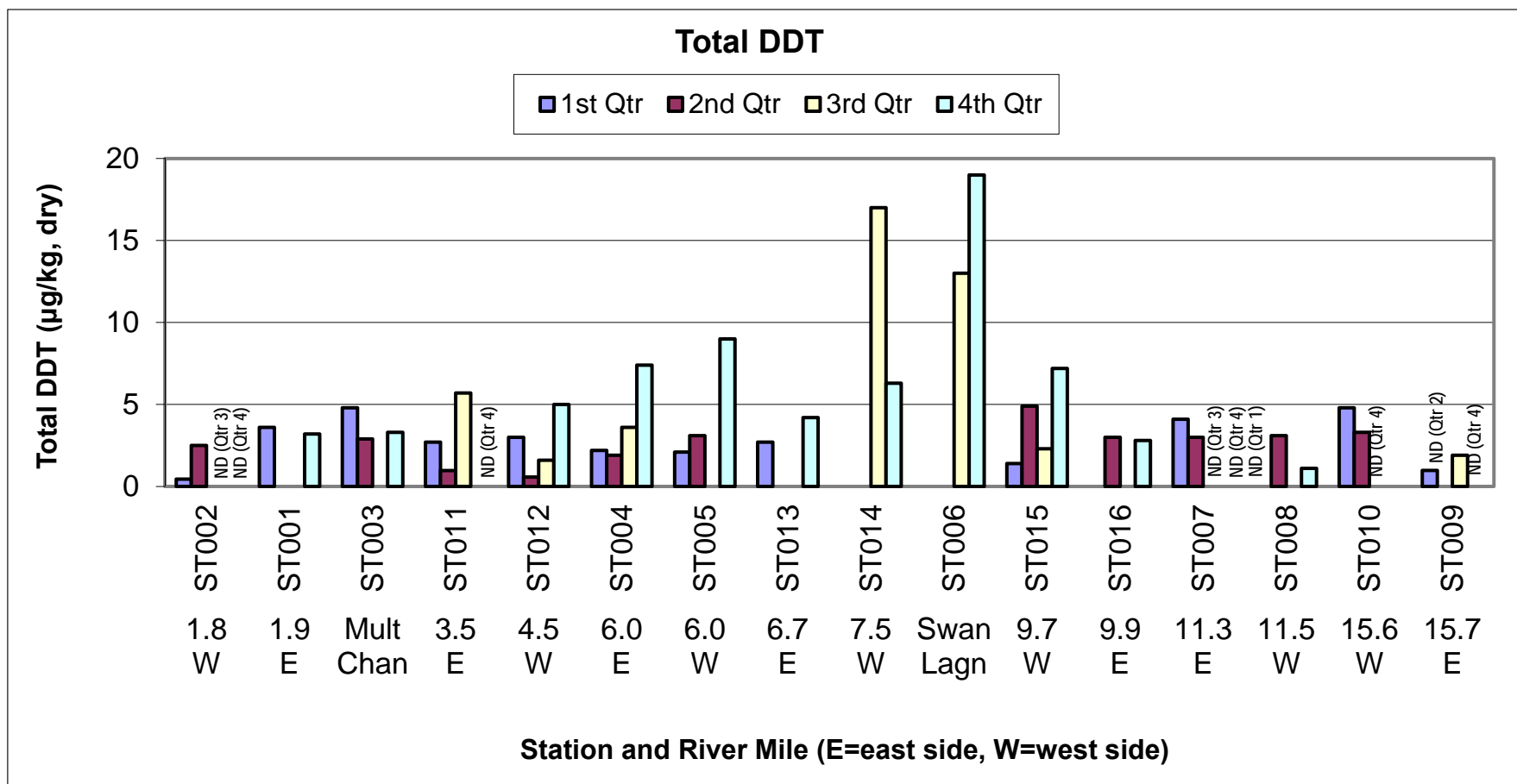
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-1a**  
 Portland Harbor RI/FS  
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 Histogram of PCB TEQ (ND=0)  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

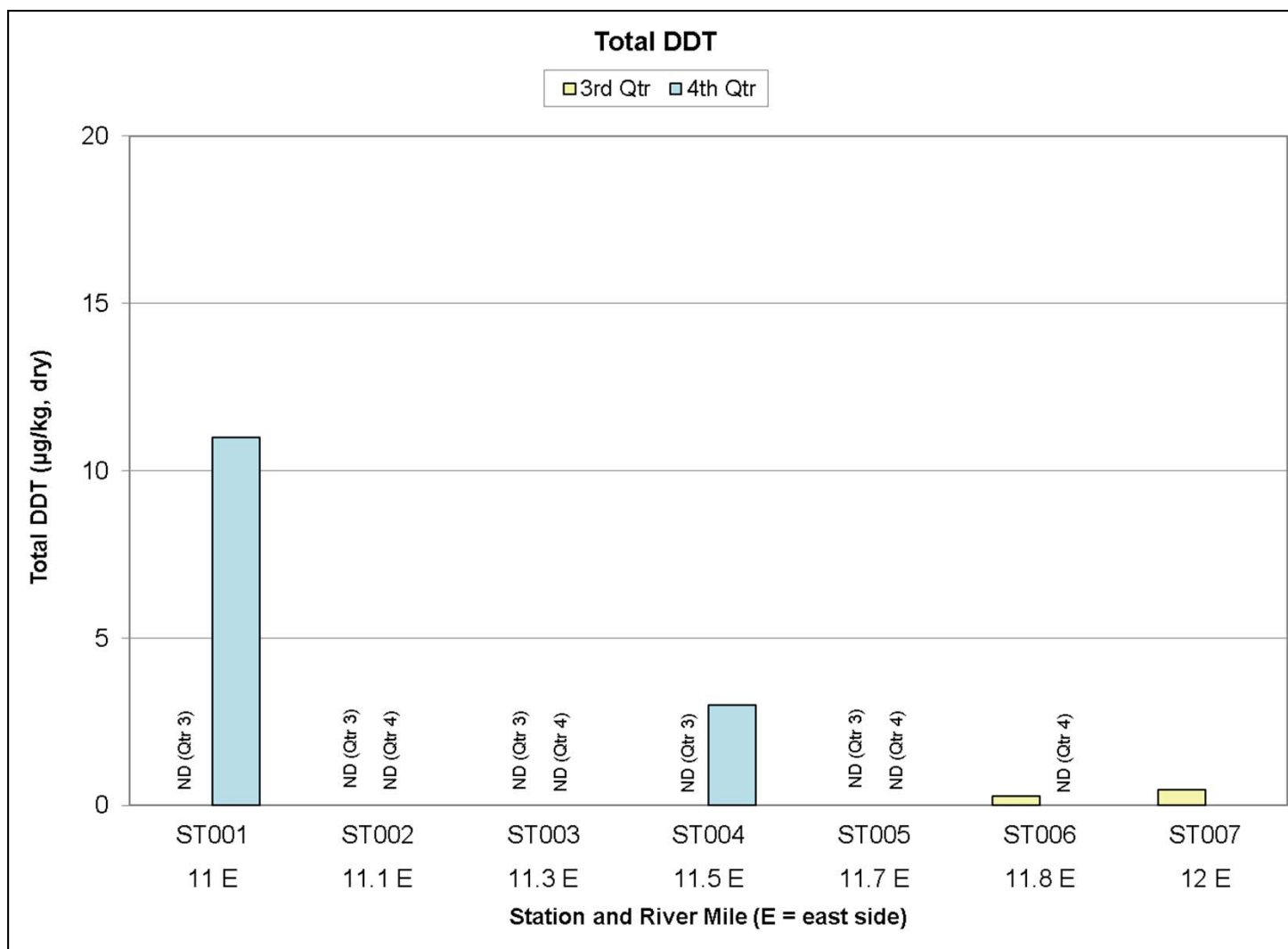
**Figure D2.1-1b**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of PCB TEQ (ND=0)  
 Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

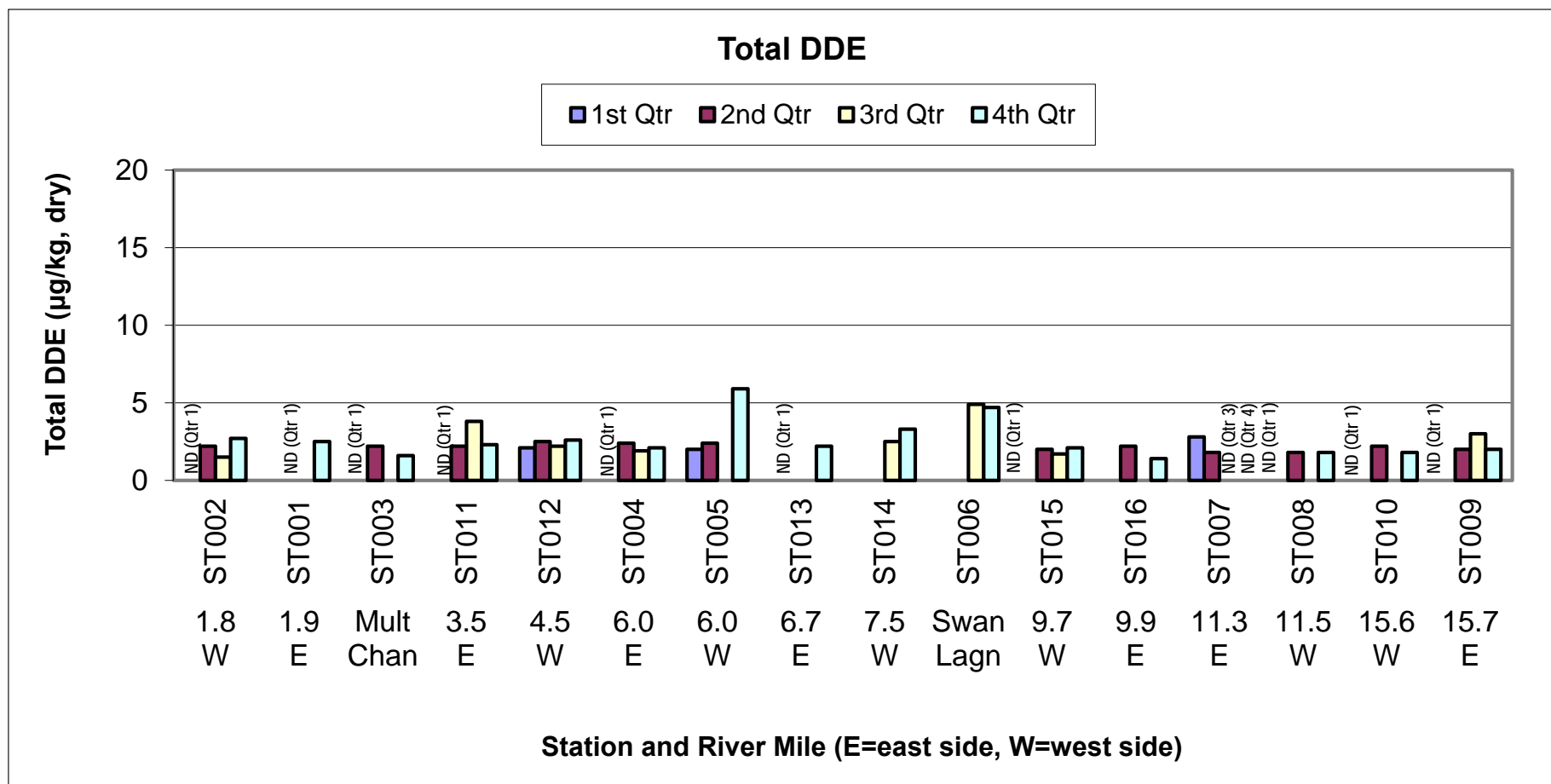
**Figure D2.1-2a**  
 Portland Harbor RI/FS  
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 Histogram of Total DDT  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

**Figure D2.1-2b**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Total DDT  
 Concentrations for In-River Sediment Traps, 2009

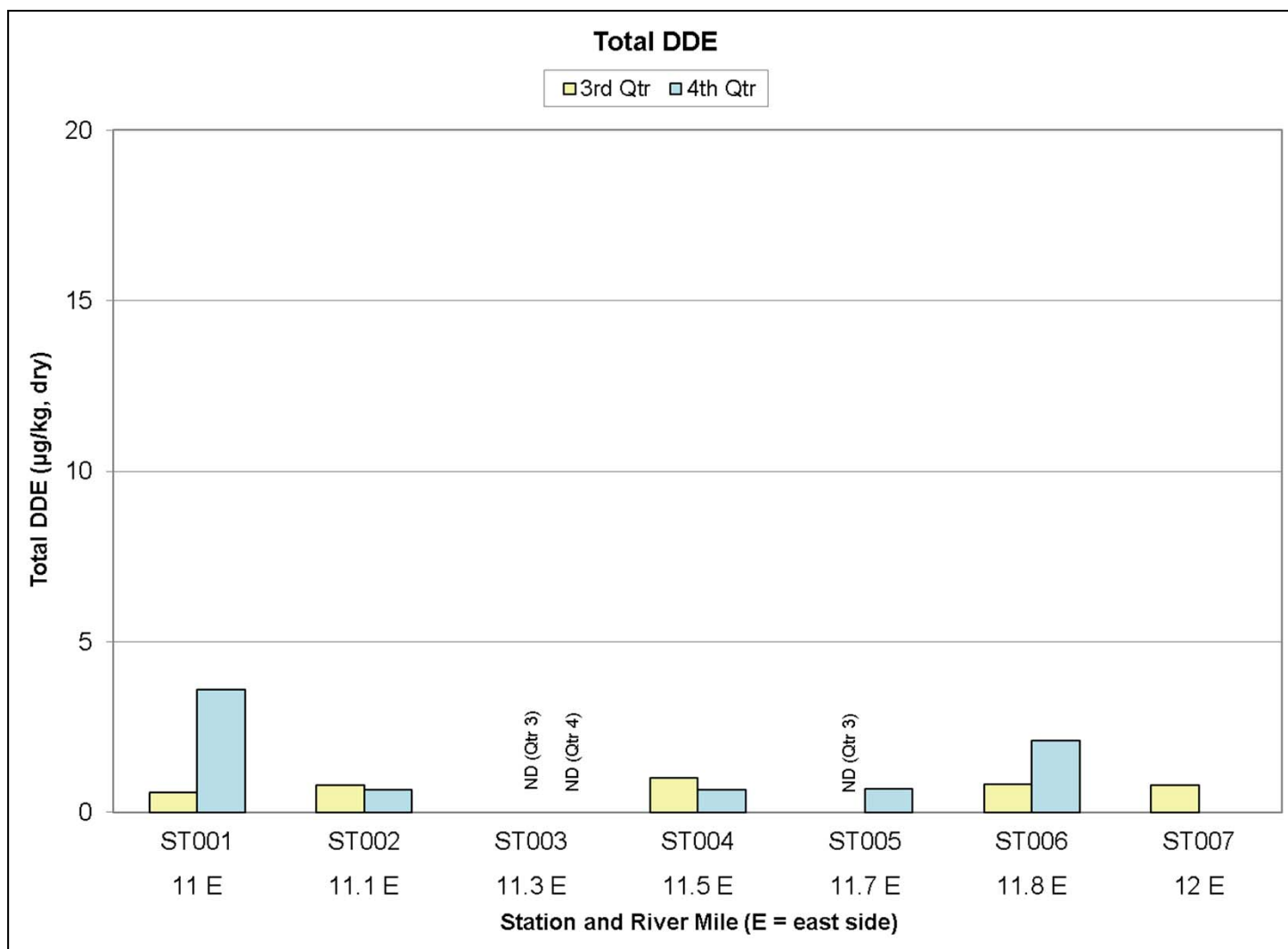


Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

**Figure D2.1-3a**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Total DDE  
 Concentrations for In-River Sediment Traps, 2007



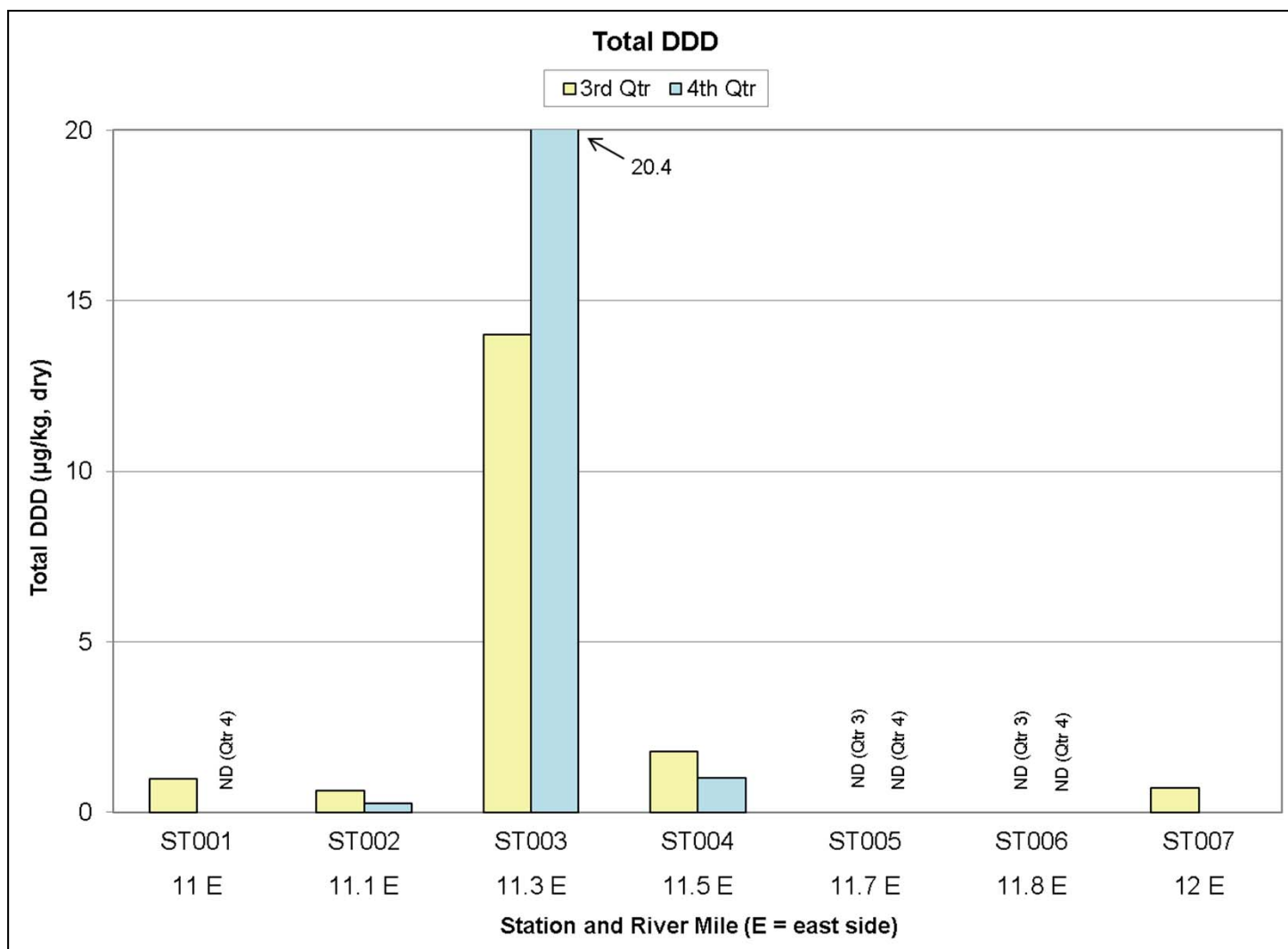


Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

**Figure D2.1-3b**  
 Portland Harbor RI/FS  
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 Histogram of Total DDE  
 Concentrations for In-River Sediment Traps, 2009

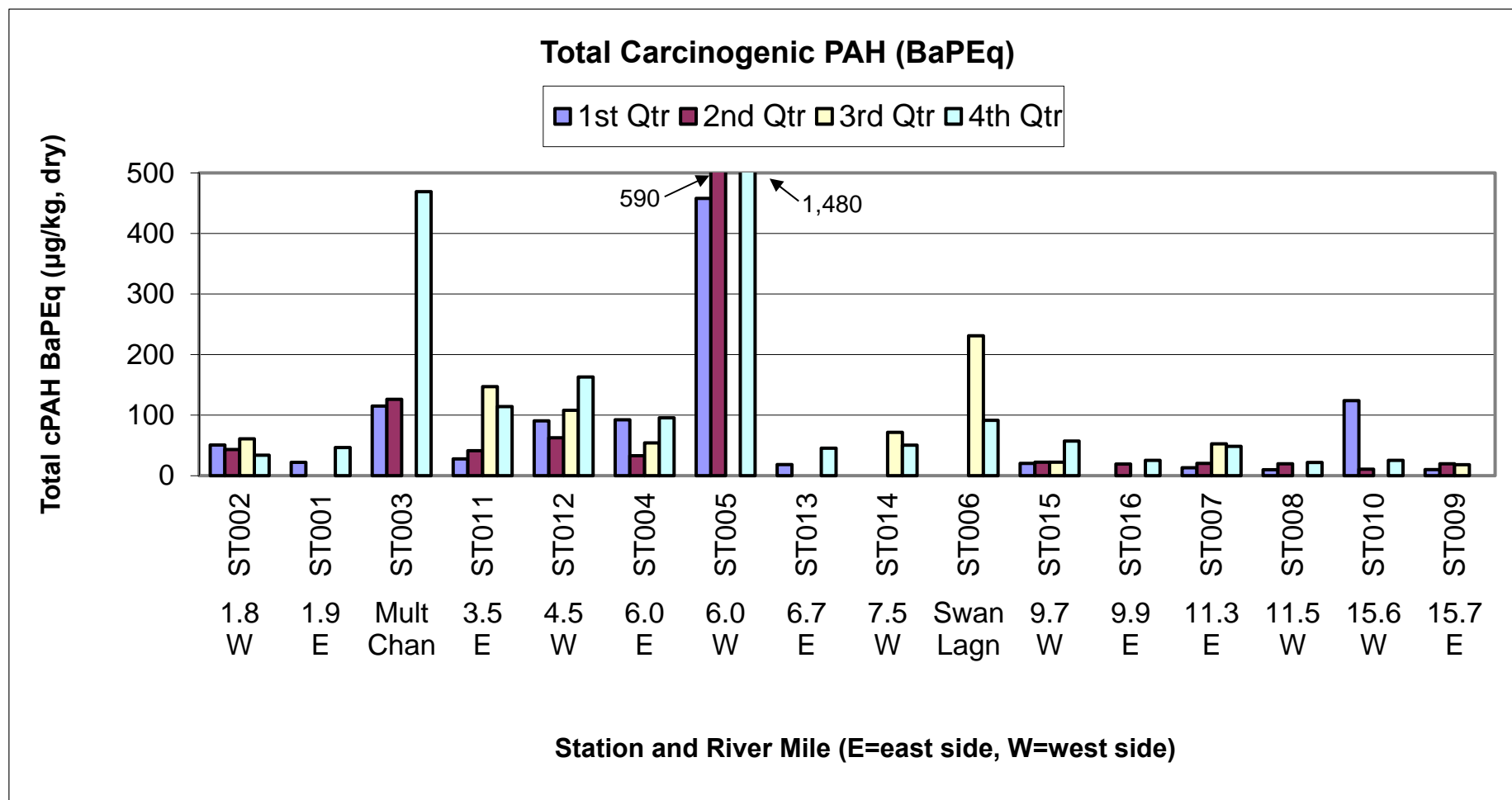




Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

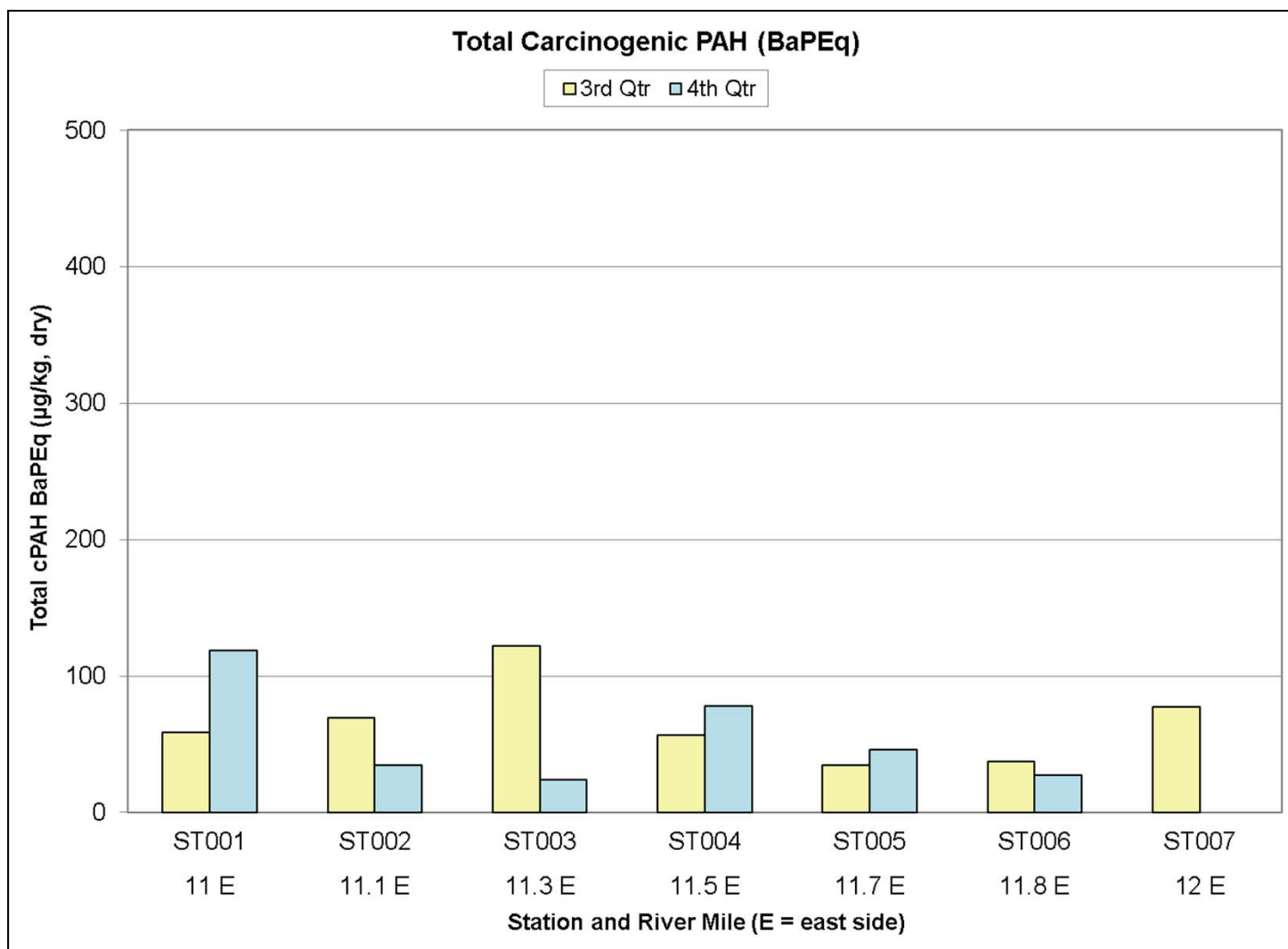
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**Figure D2.1-4b**  
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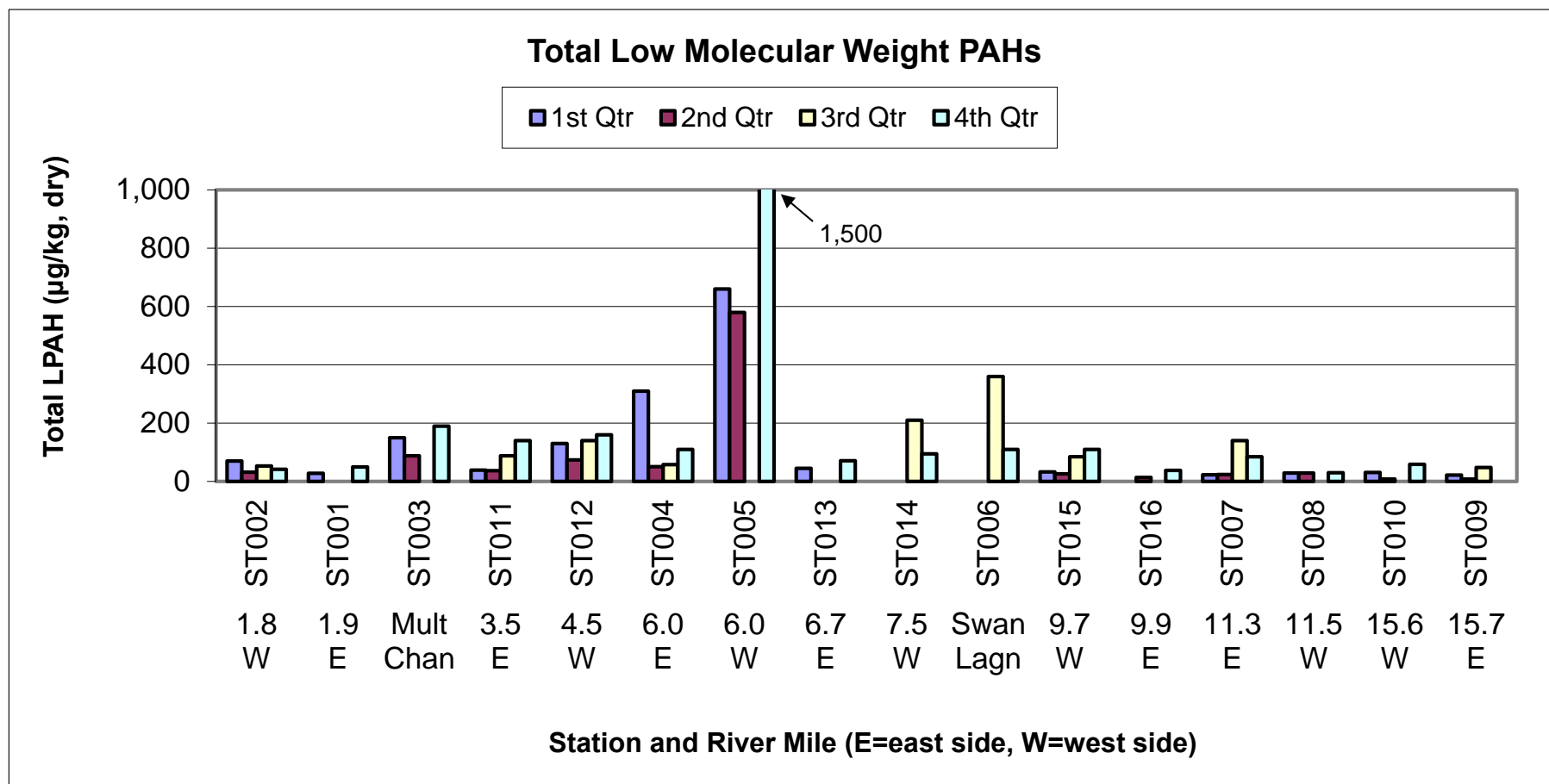
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-5a**  
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 Histogram of Total Carcinogenic PAHs (BaPEq)  
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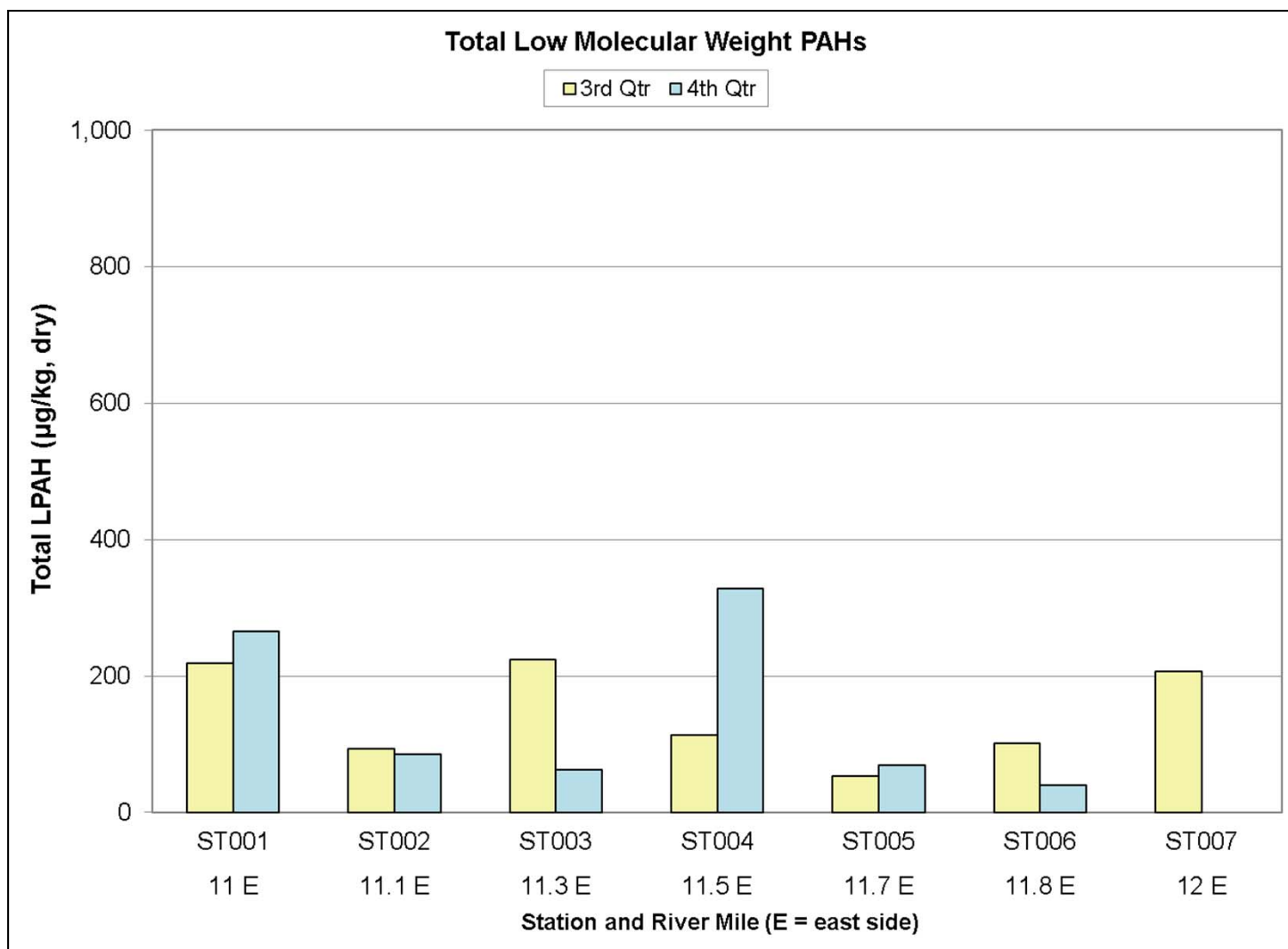
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**Figure D2.1-5b**  
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Histogram of Total Carcinogenic PAHs (BaPEq)  
Concentrations for In-River Sediment Traps, 2009



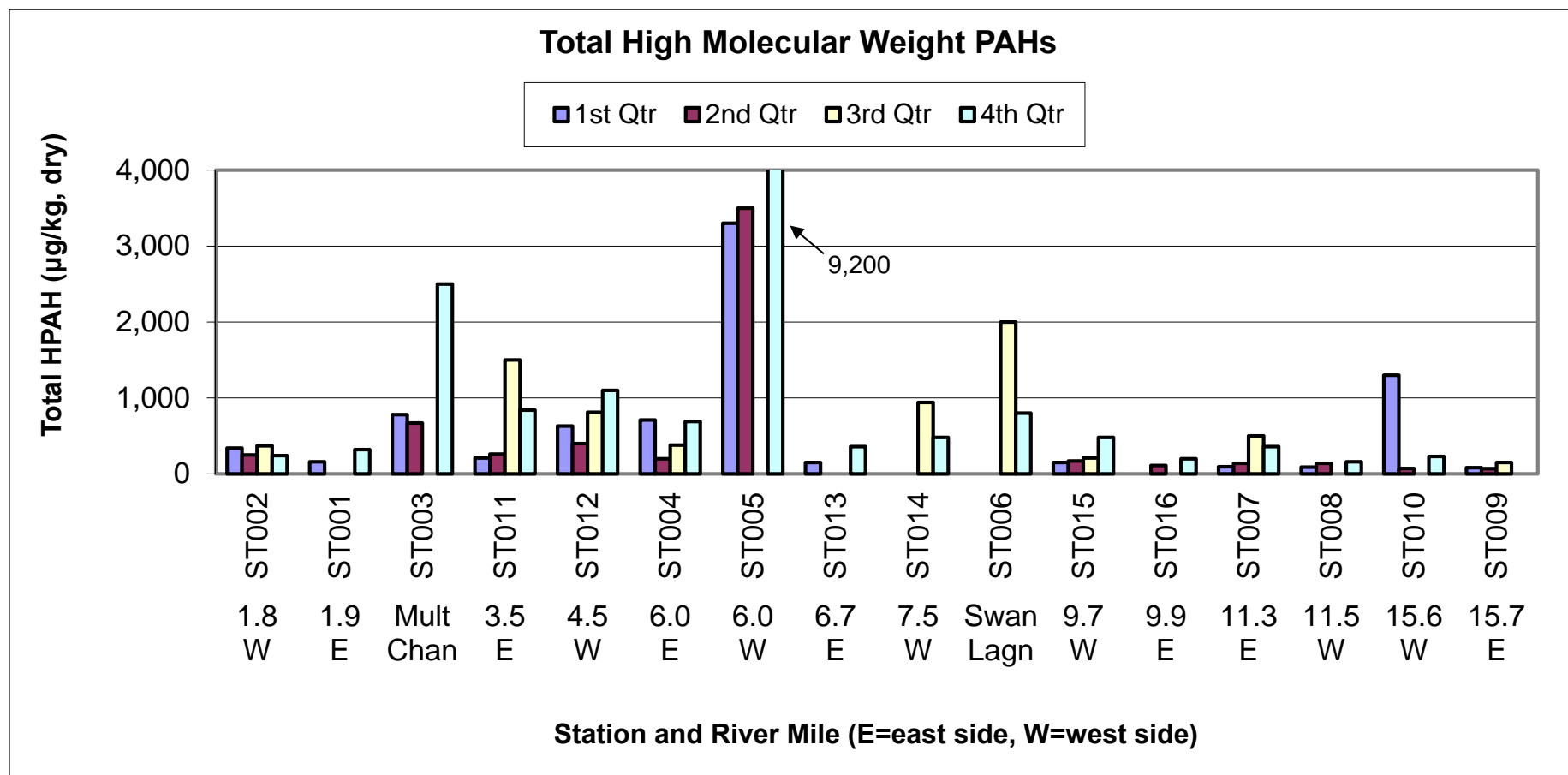
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-6a**  
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 Histogram of Total Low Molecular Weight PAHs  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1<sup>st</sup> and 2<sup>nd</sup> quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

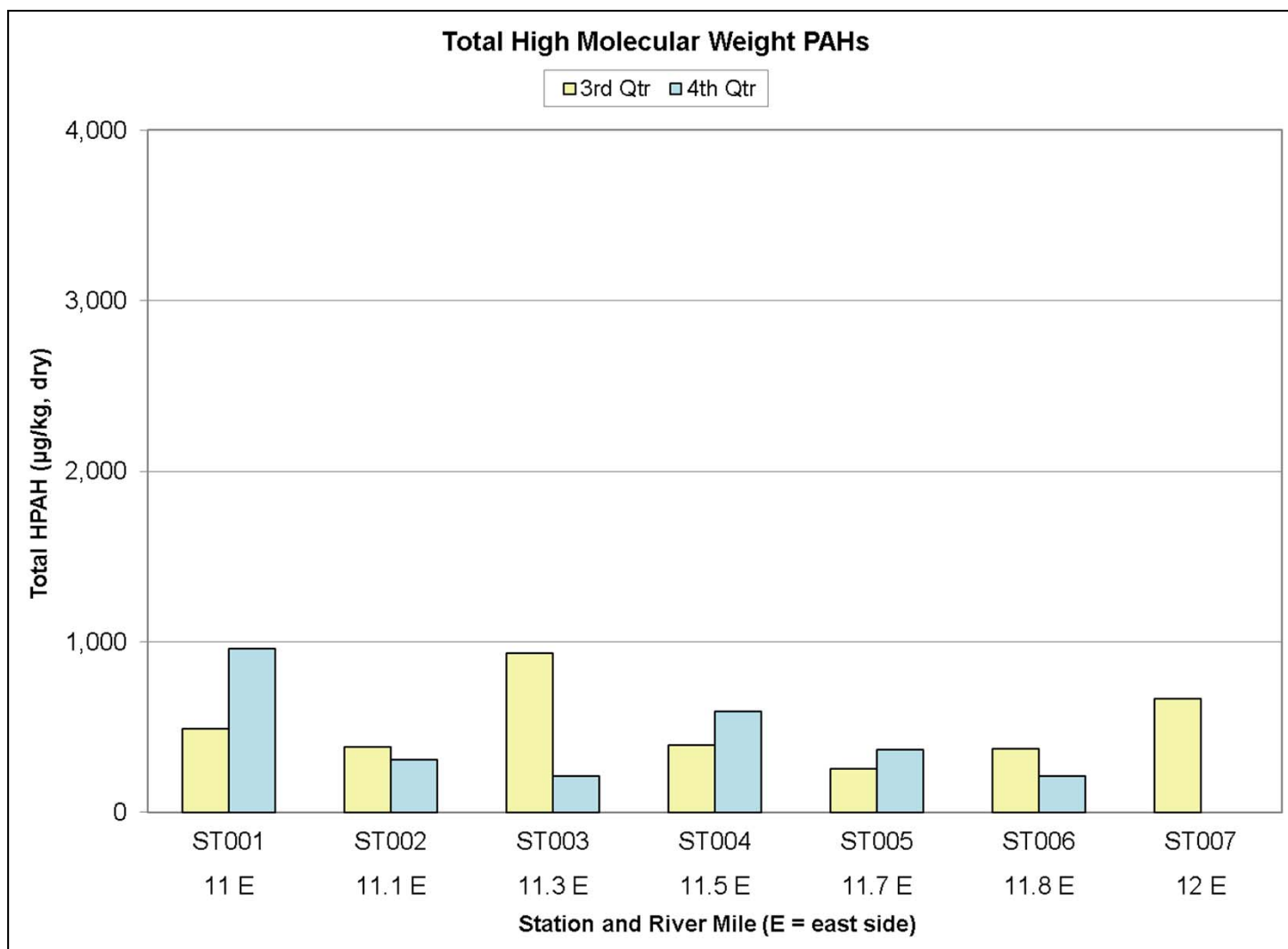
**Figure D2.1-6b**  
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 Histogram of Total Low Molecular Weight PAHs  
 Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

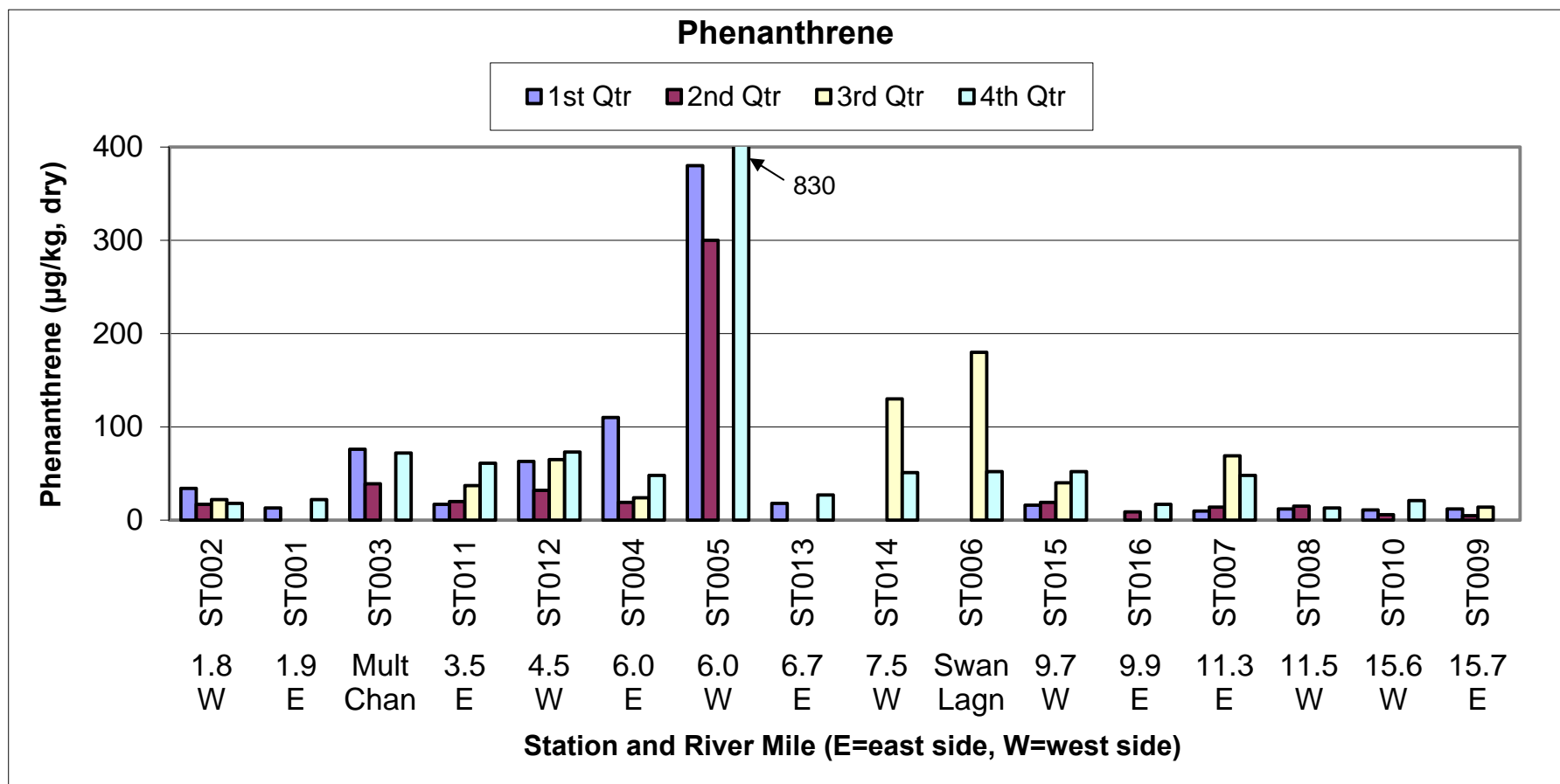
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 Histogram of Total High Molecular Weight PAHs  
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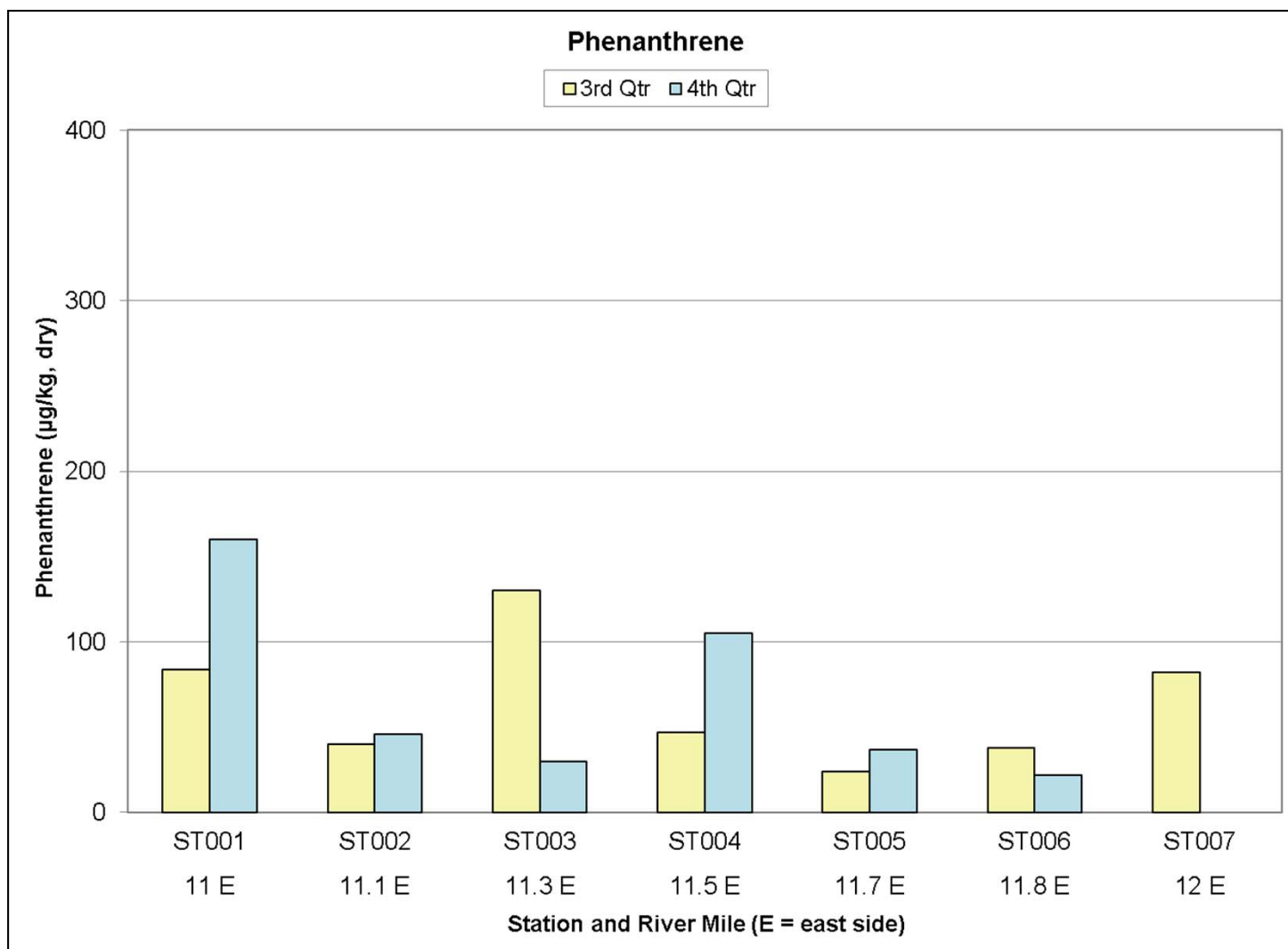
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-7b**  
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Histogram of Total High Molecular Weight PAHs  
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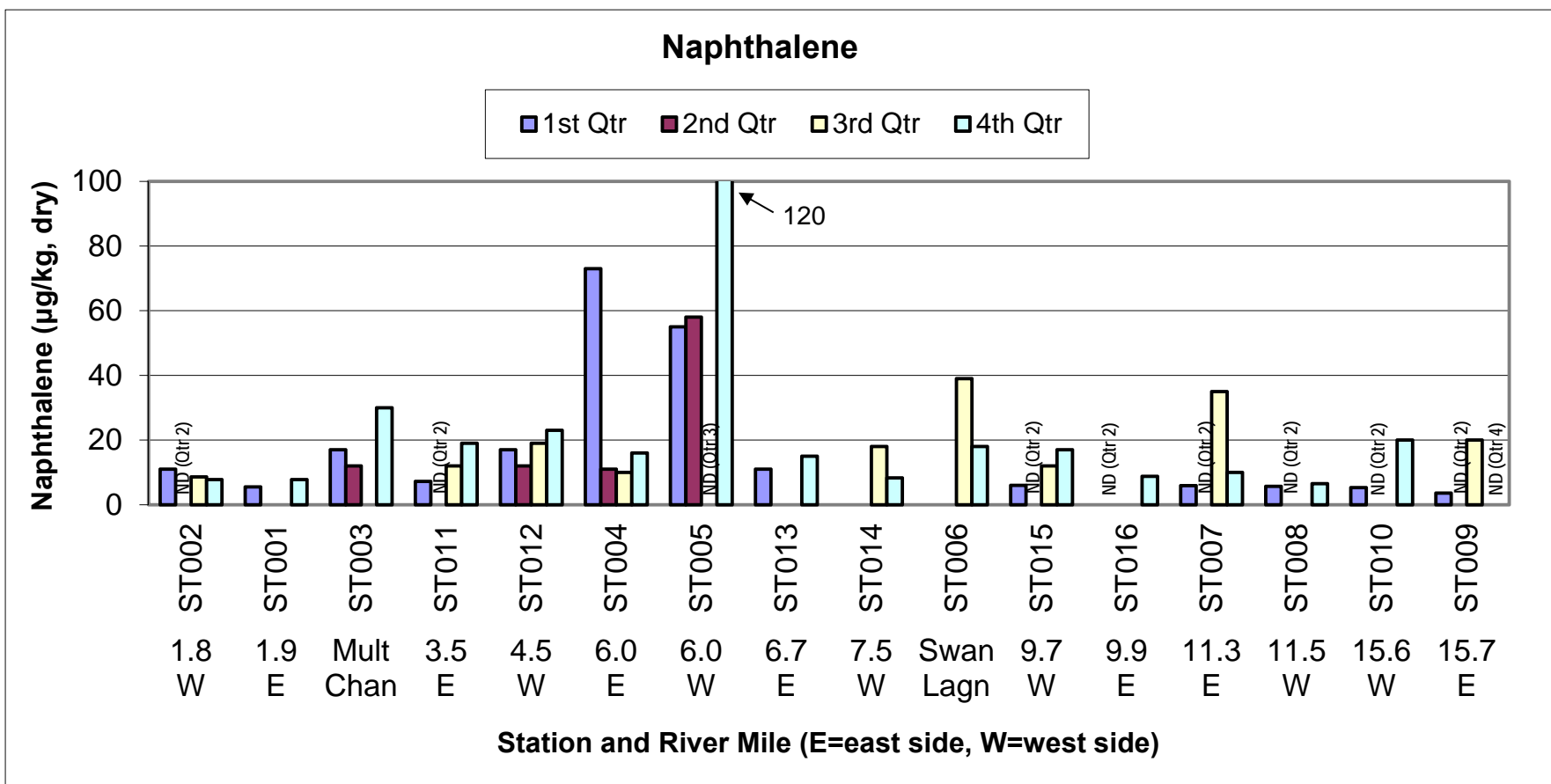
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-8a**  
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 Histogram of Phenanthrene  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

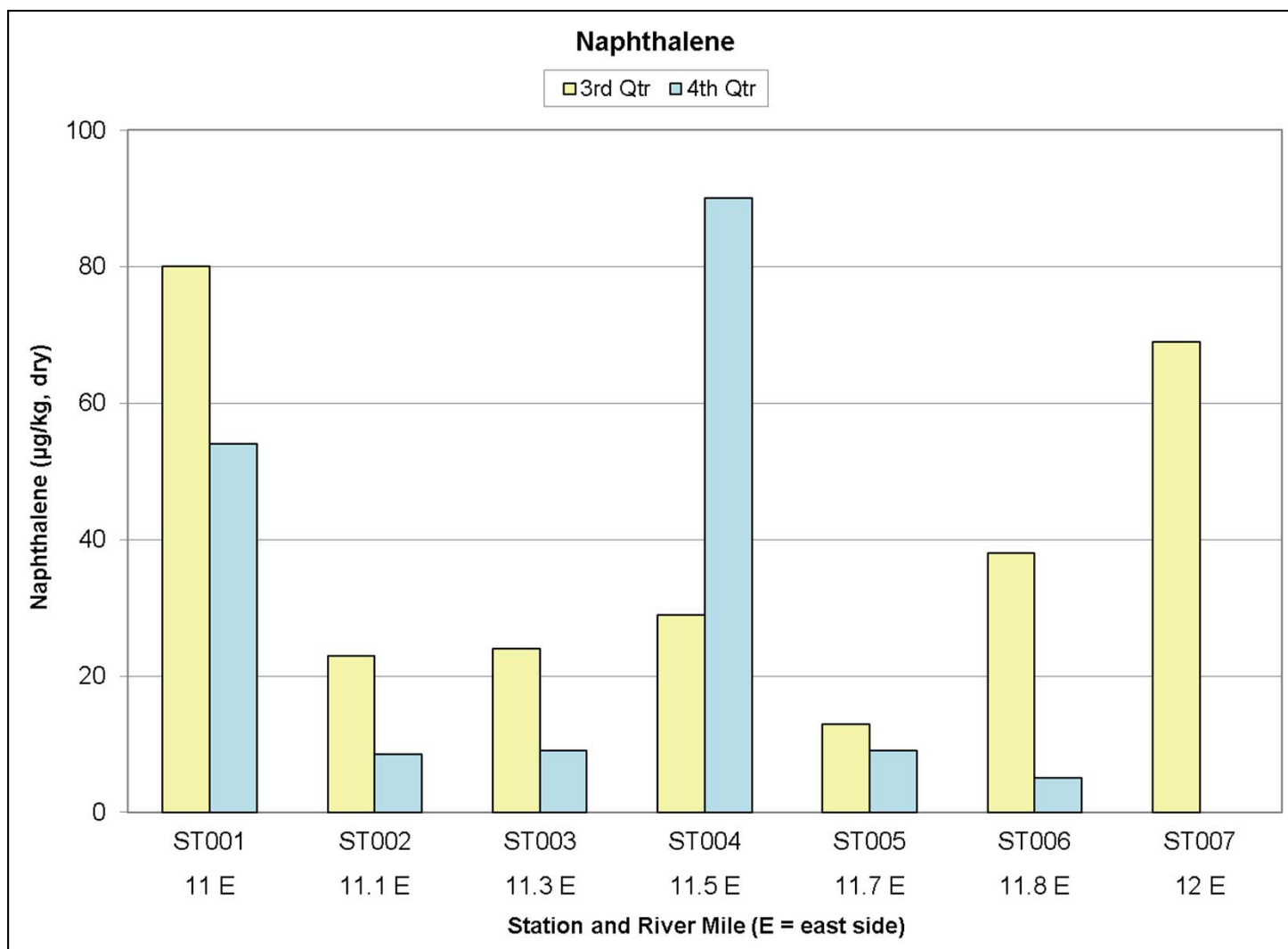
**Figure D2.1-8b**  
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Histogram of Phenanthrene  
Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

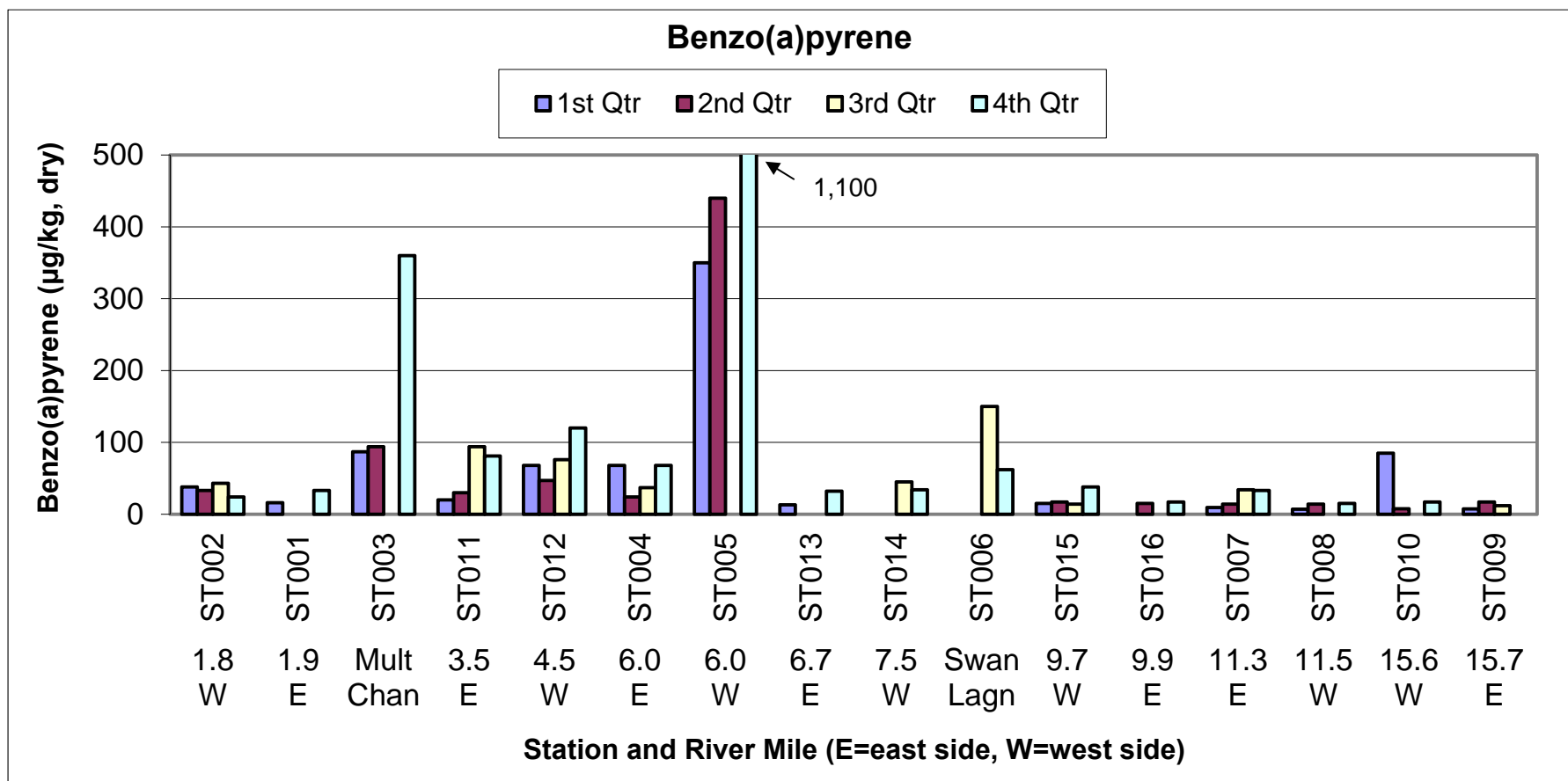
ND = not detected at quarter shown

**Figure D2.1-9a**  
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 Histogram of Naphthalene  
 Concentrations for In-River Sediment Traps, 2007



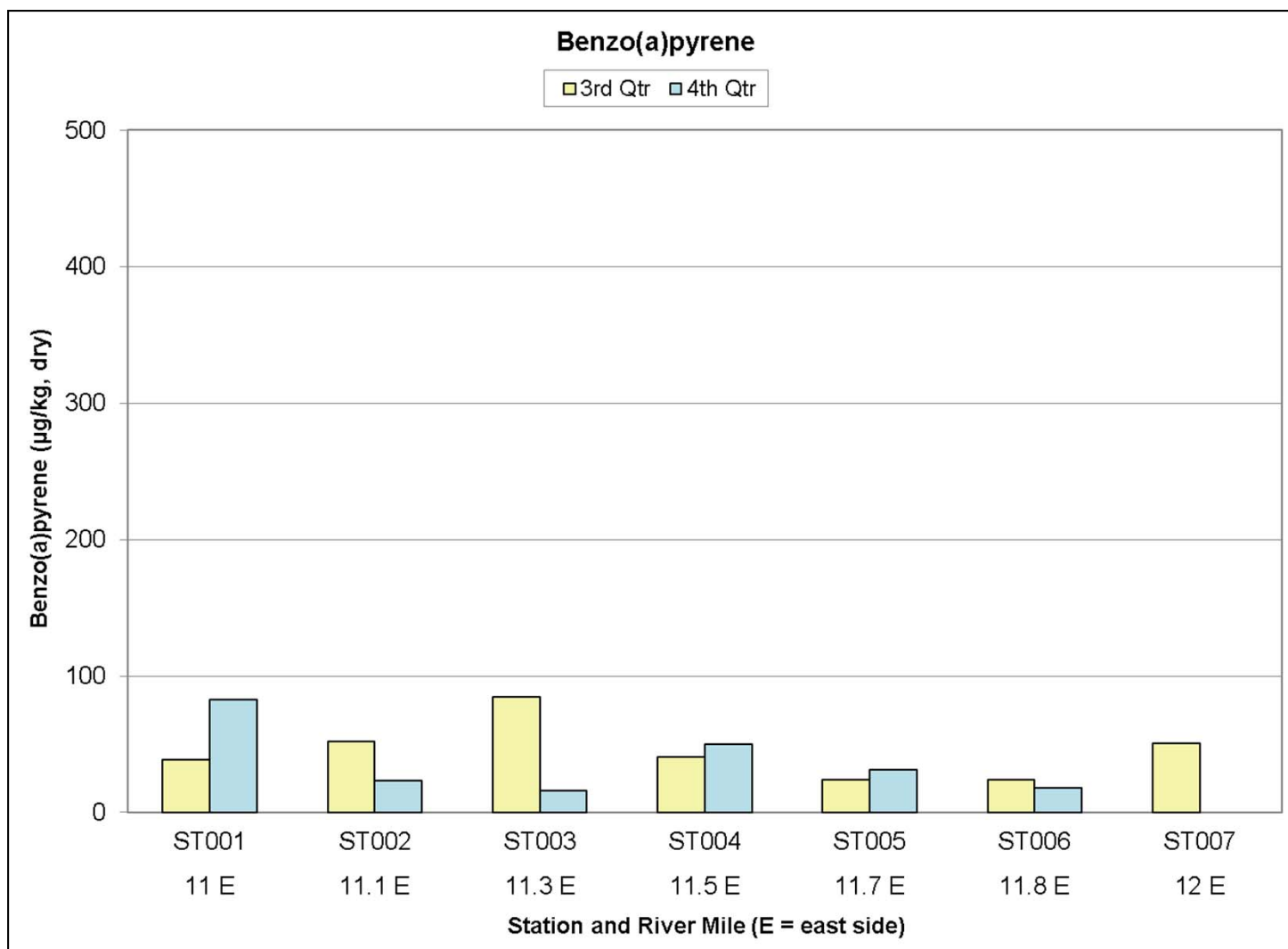
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-9b**  
Portland Harbor RI/FS  
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Histogram of Naphthalene  
Concentrations for In-River Sediment Traps, 2009



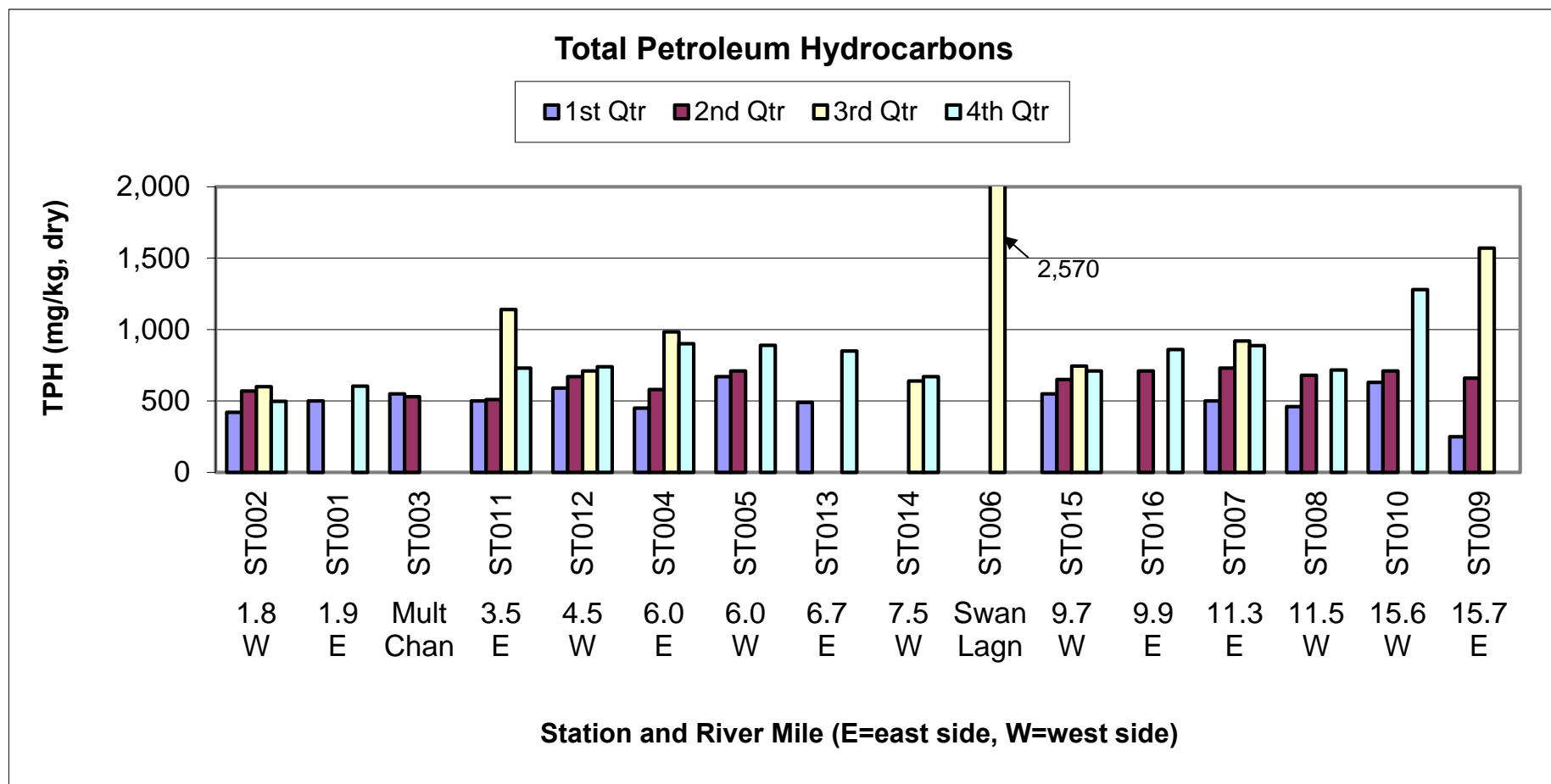
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-10a**  
 Portland Harbor RI/FS  
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 Histogram of Benzo(a)pyrene  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

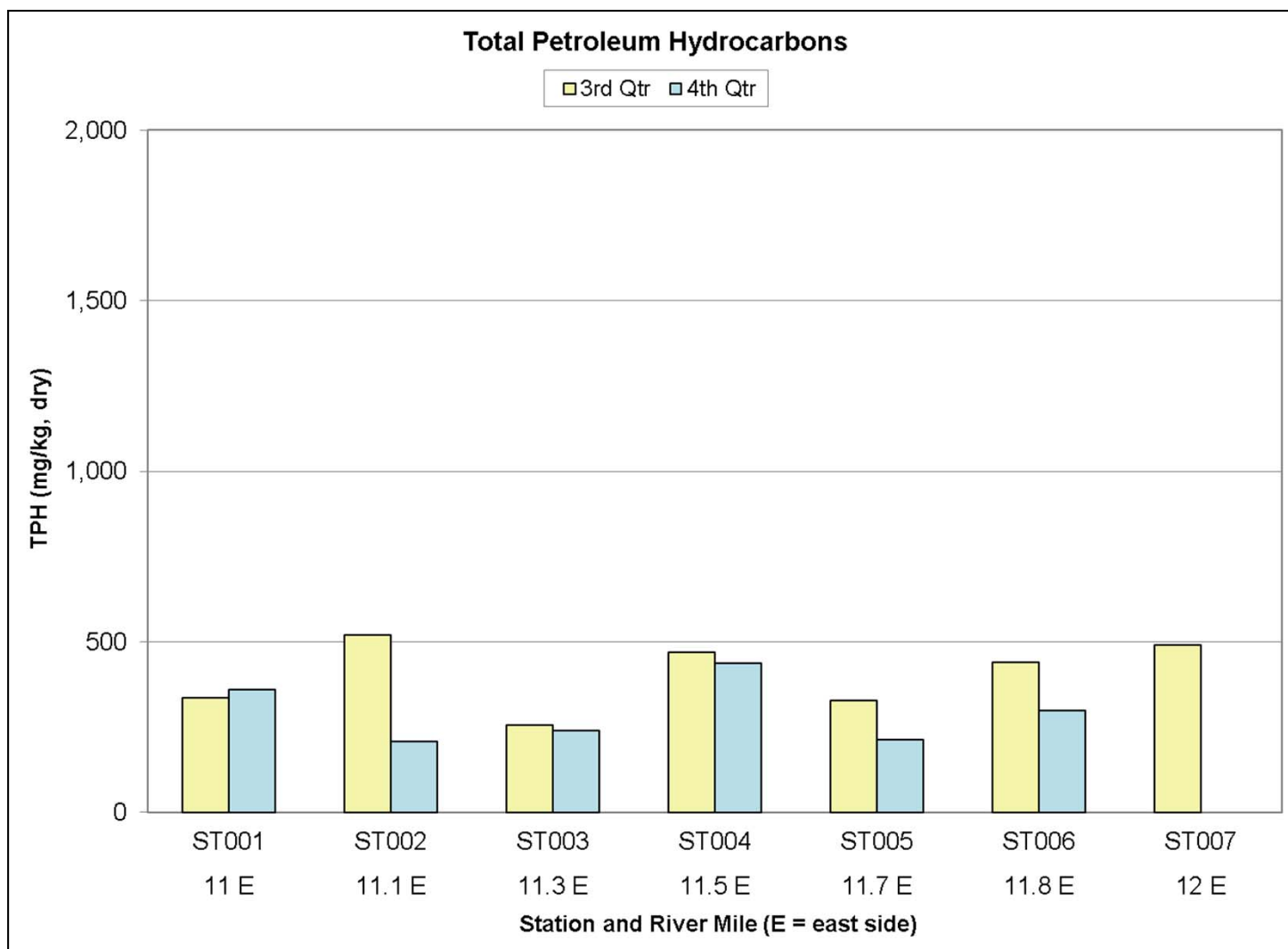
**Figure D2.1-10b**  
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Histogram of Benzo(a)pyrene  
Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

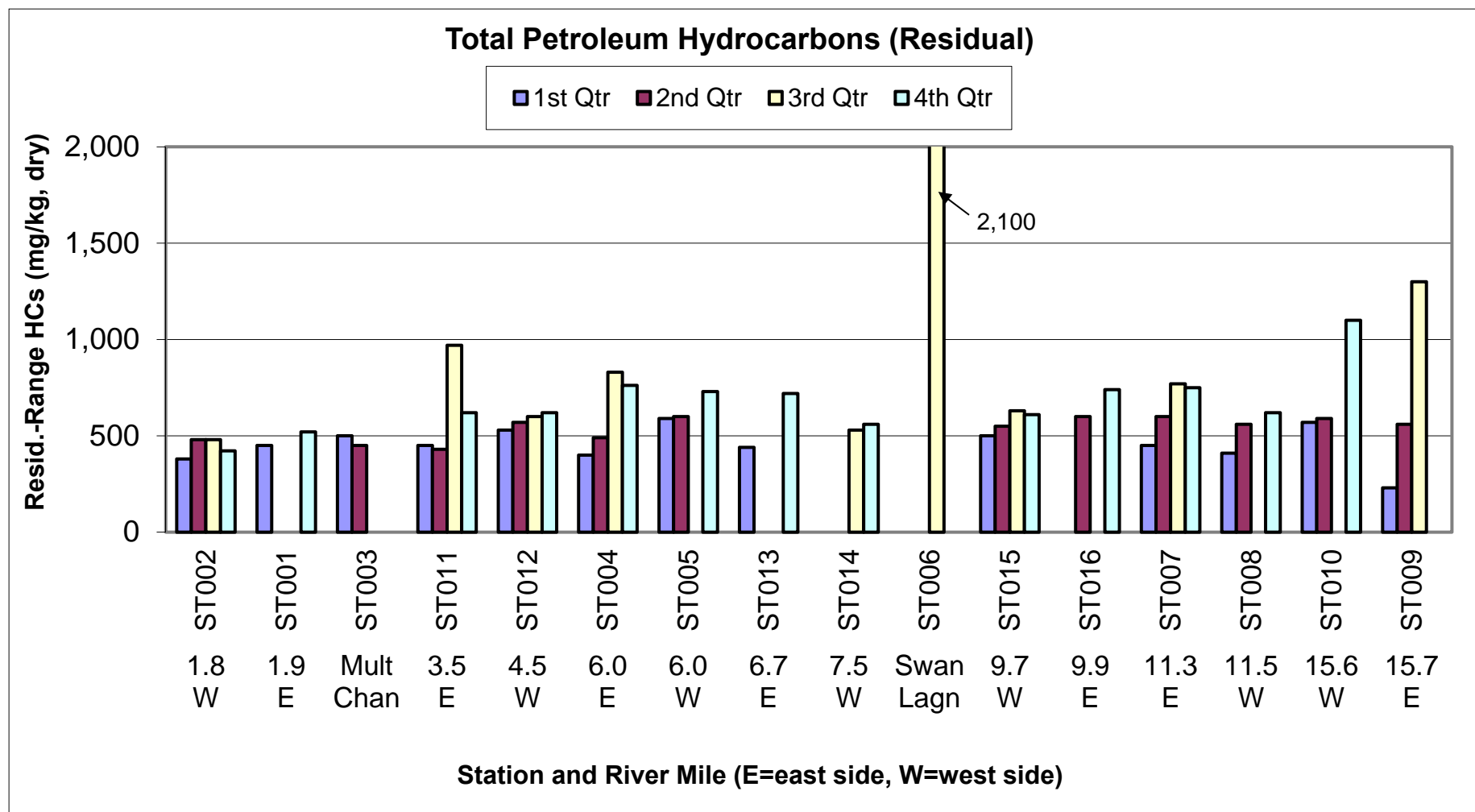
**Figure D2.1-11a**  
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 Histogram of Total Petroleum Hydrocarbon  
 Concentrations for In-River Sediment Traps, 2007





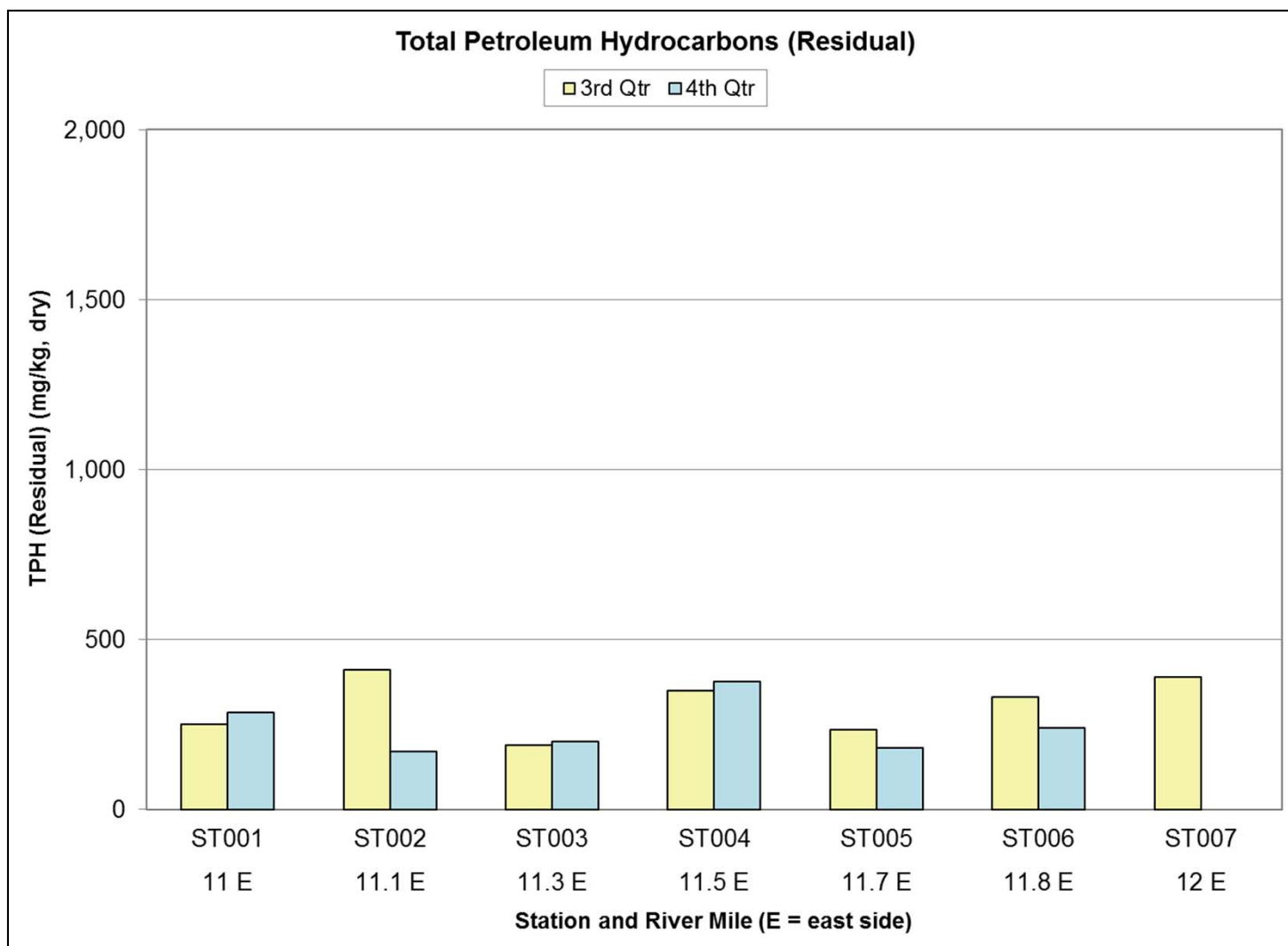
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-11b**  
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Histogram of Total Petroleum Hydrocarbon  
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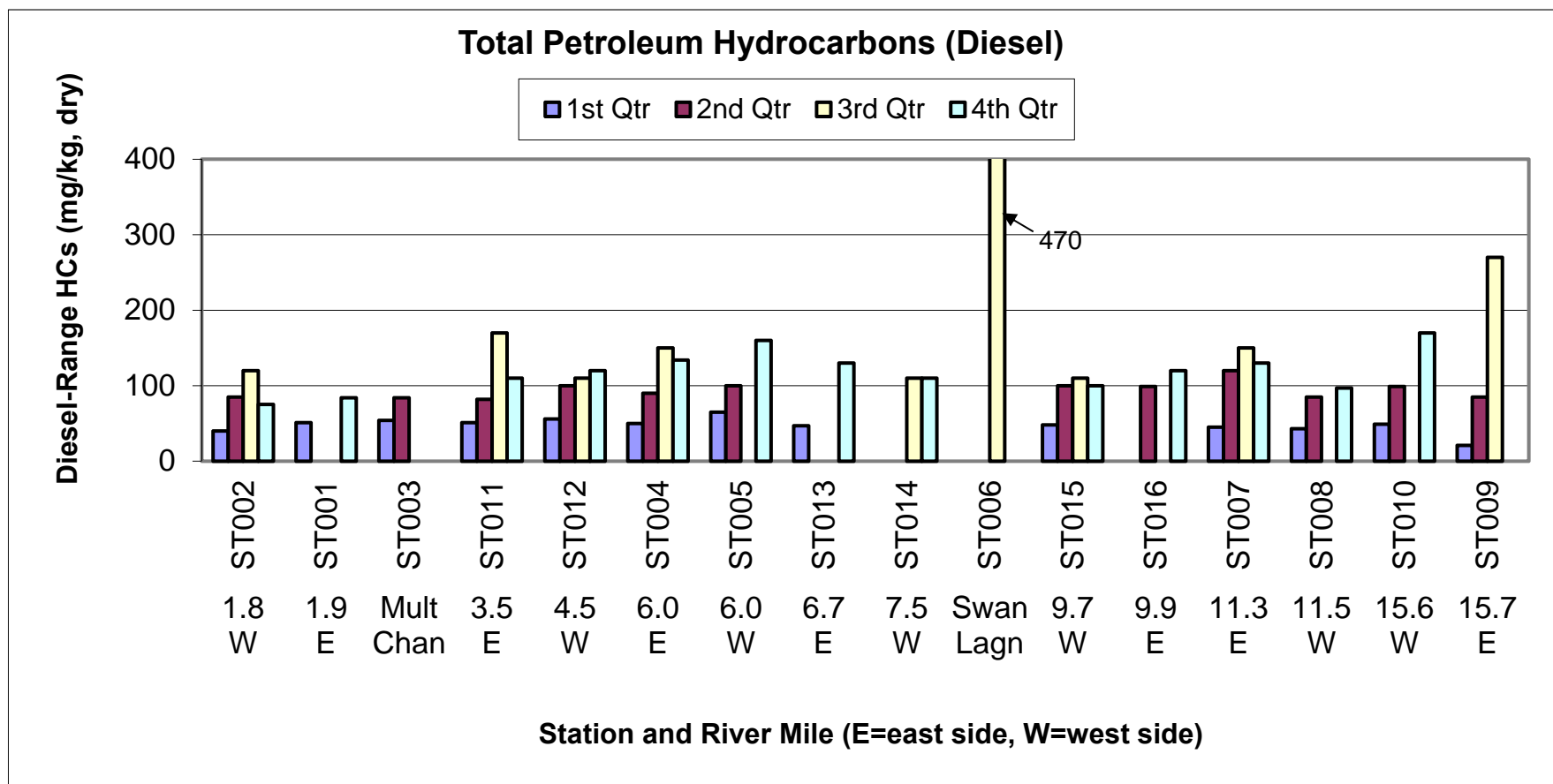
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-12a**  
 Portland Harbor RI/FS  
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 Histogram of Total Petroleum Hydrocarbon (Residual)  
 Concentrations for In-River Sediment Traps, 2007



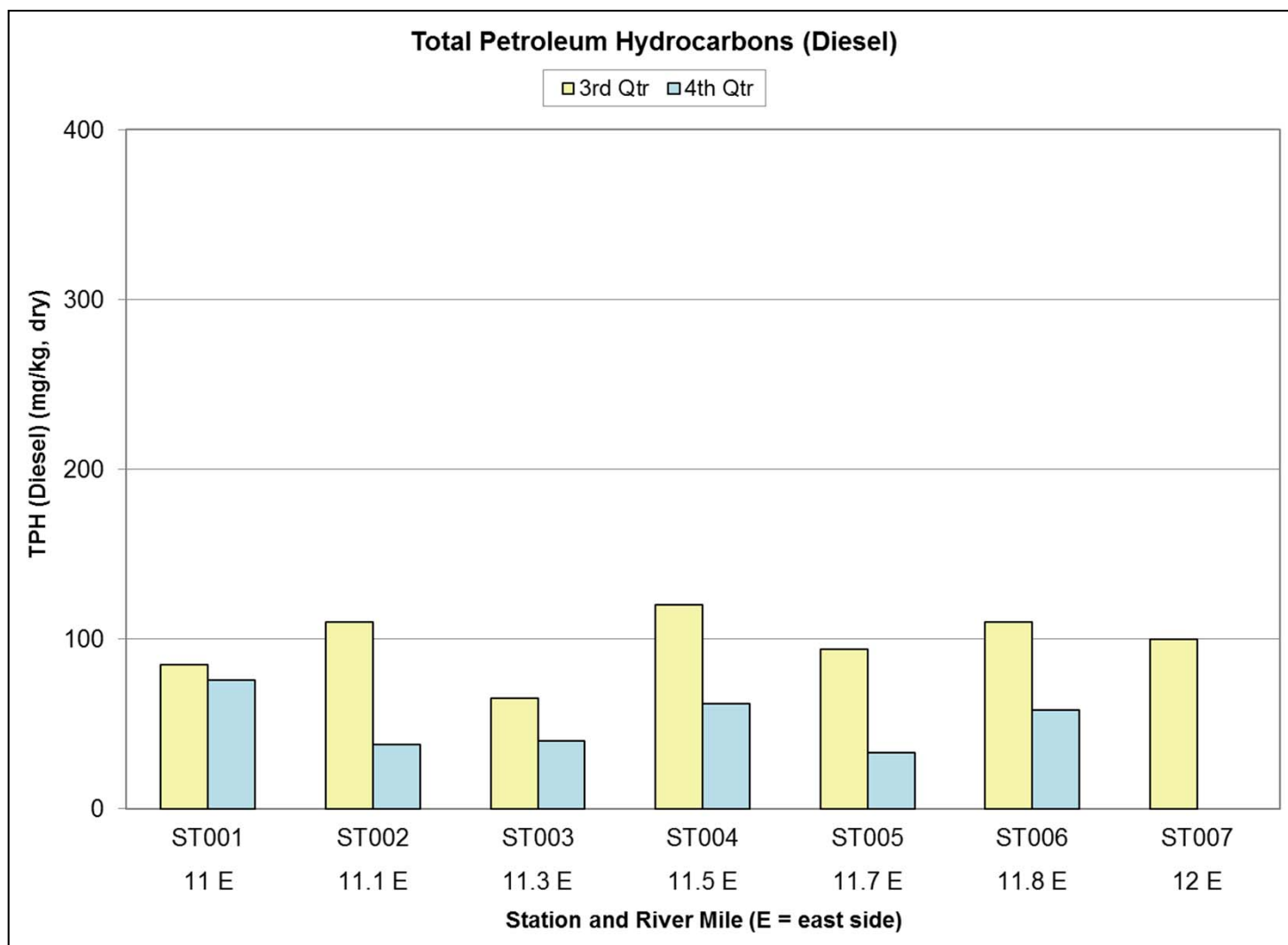
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-12b**  
Portland Harbor RI/FS  
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Histogram of Total Petroleum Hydrocarbon (Residual)  
Concentrations for In-River Sediment Traps, 2009



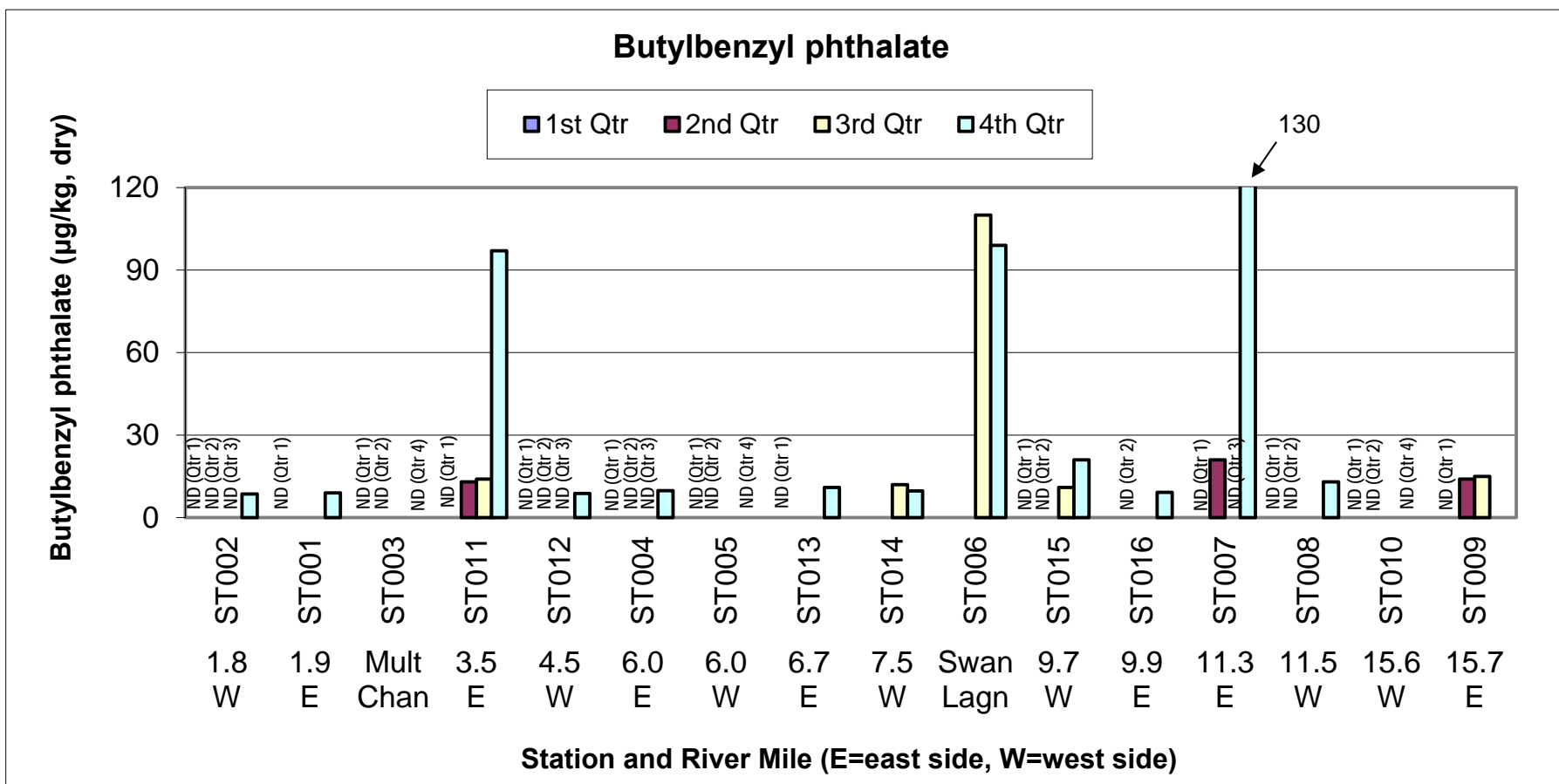
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-13a**  
 Portland Harbor RI/FS  
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 Histogram of Total Petroleum Hydrocarbon (Diesel)  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

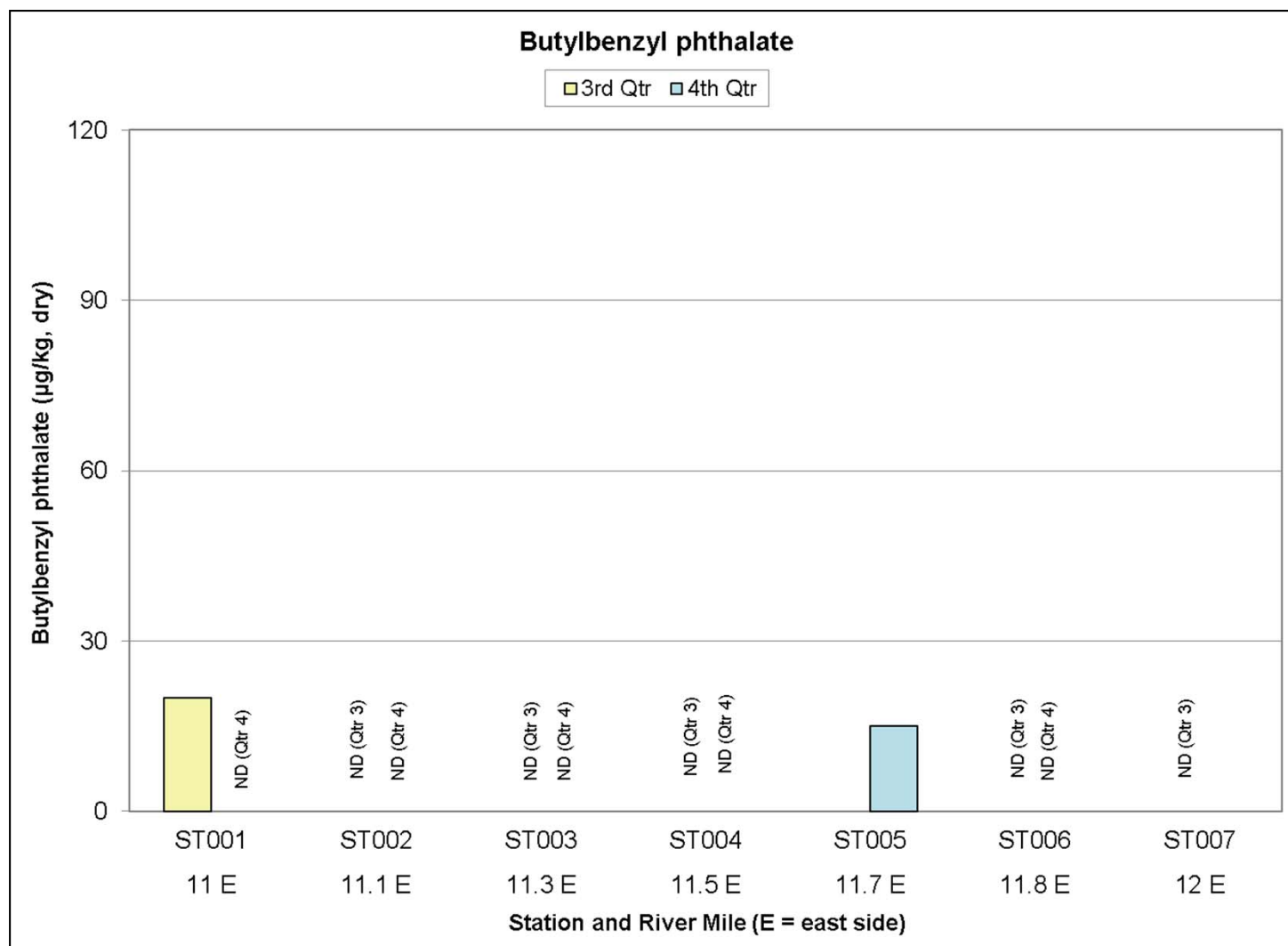
**Figure D2.1-13b**  
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 Histogram of Total Petroleum Hydrocarbon (Diesel)  
 Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

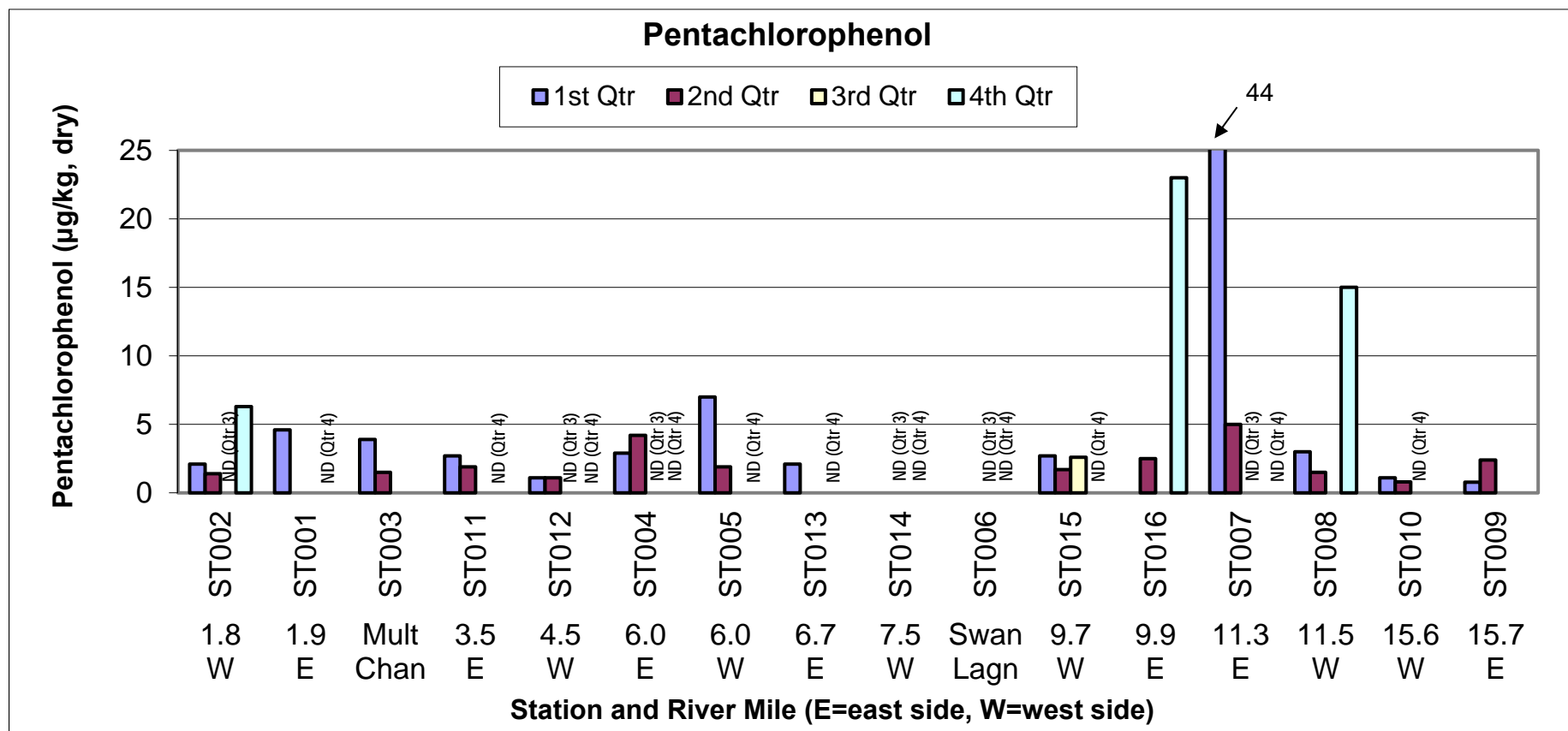
**Figure D2.1-14a**  
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 Histogram of Butylbenzyl phthalate  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

**Figure D2.1-14b**  
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 Histogram of Butylbenzyl phthalate  
 Concentrations for In-River Sediment Traps, 2009

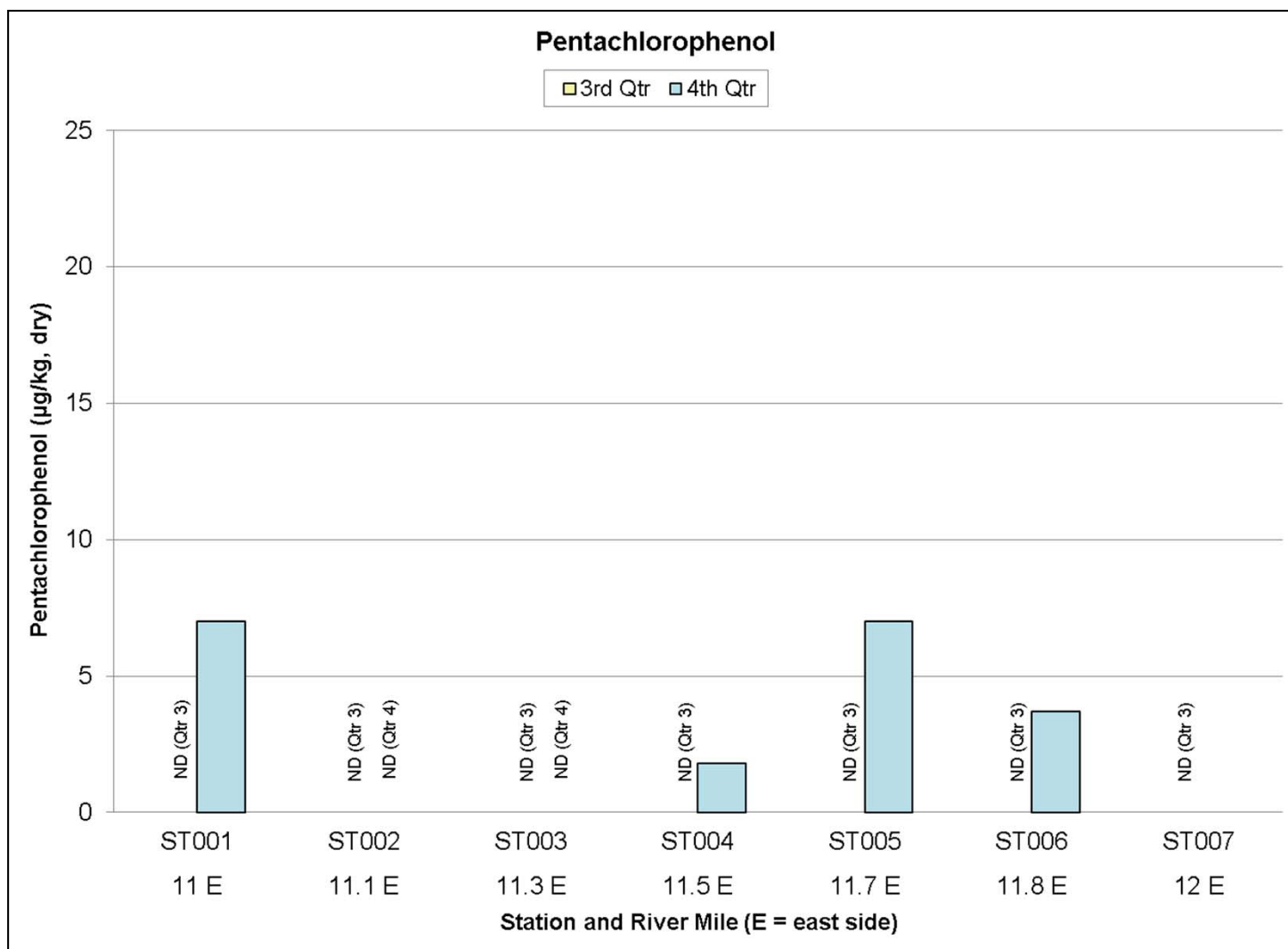


Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

**Figure D2.1-15a**  
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 Histogram of Pentachlorophenol  
 Concentrations for In-River Sediment Traps, 2007

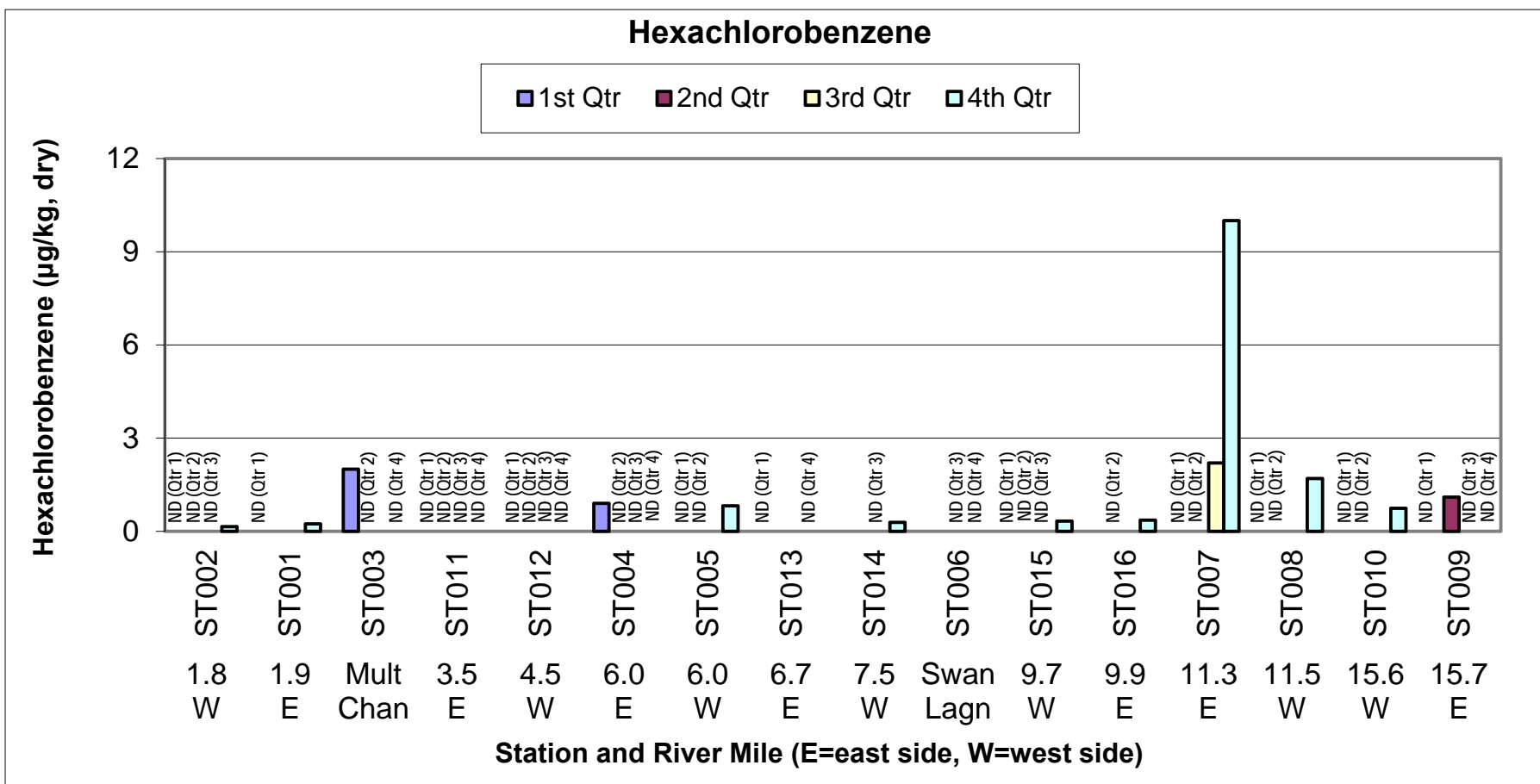




Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

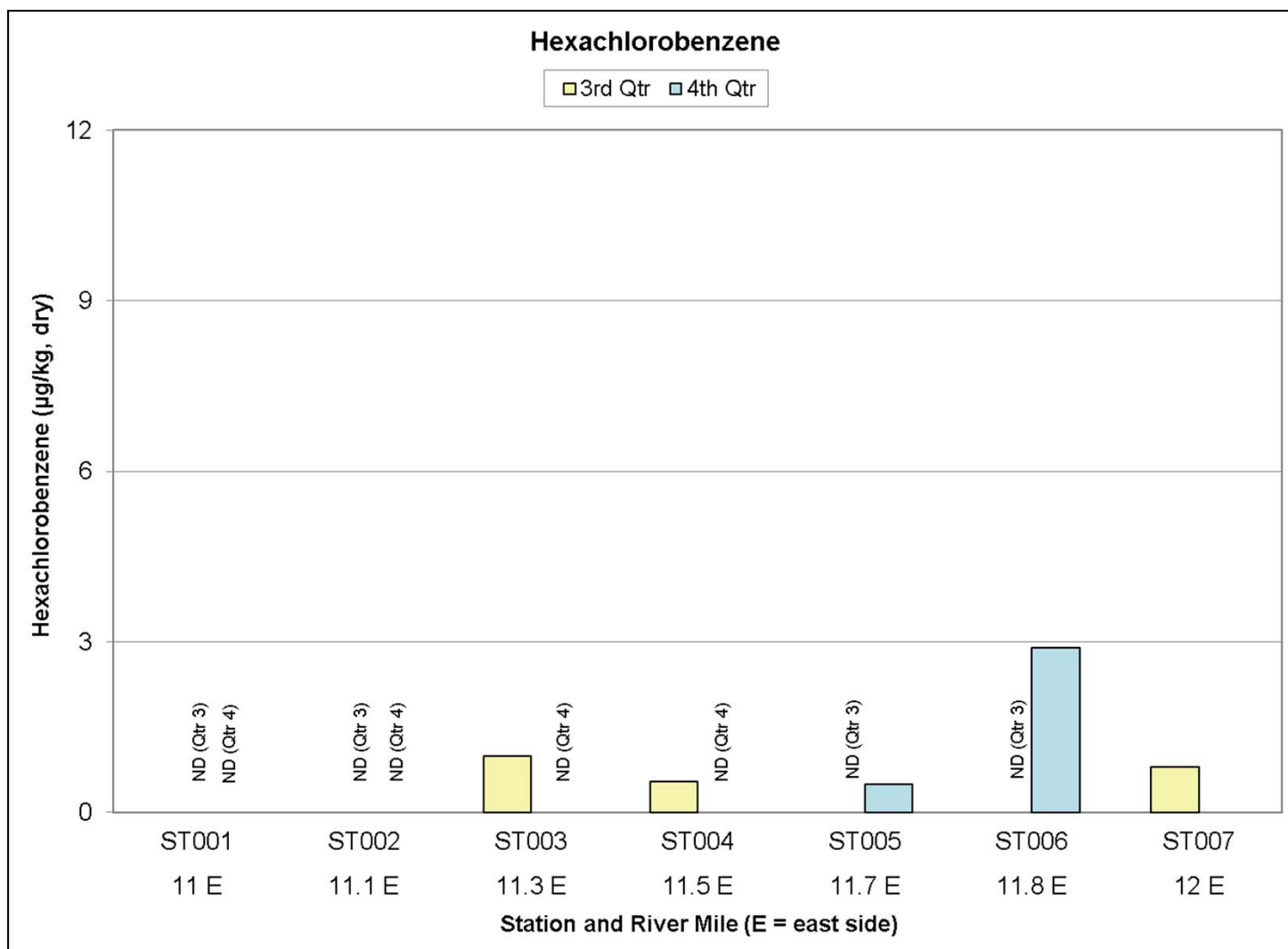
**Figure D2.1-15b**  
 Portland Harbor RI/FS  
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 Histogram of Pentachlorophenol  
 Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

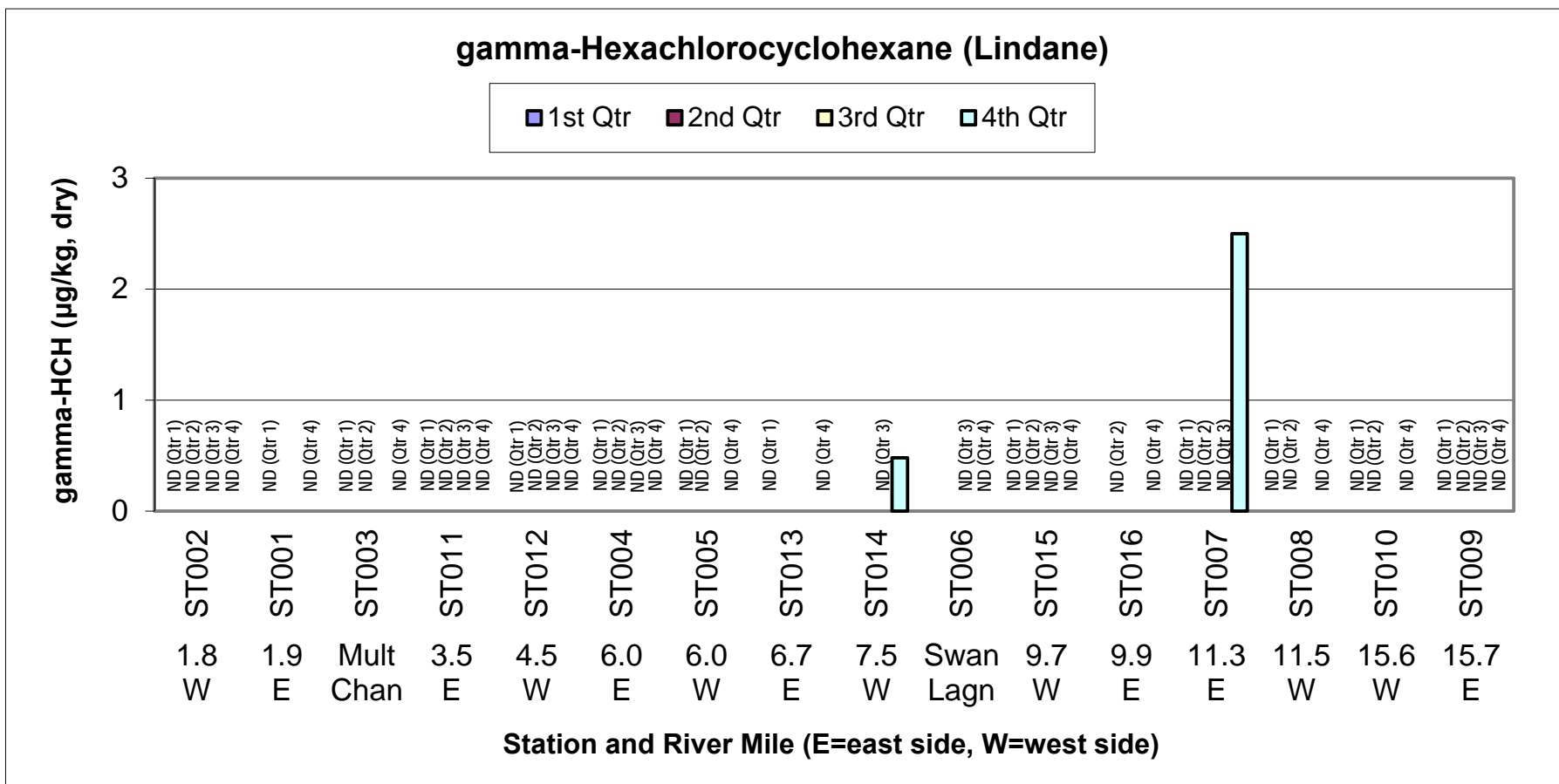
**Figure D2.1-16a**  
 Portland Harbor RI/FS  
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 Histogram of Hexachlorobenzene  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

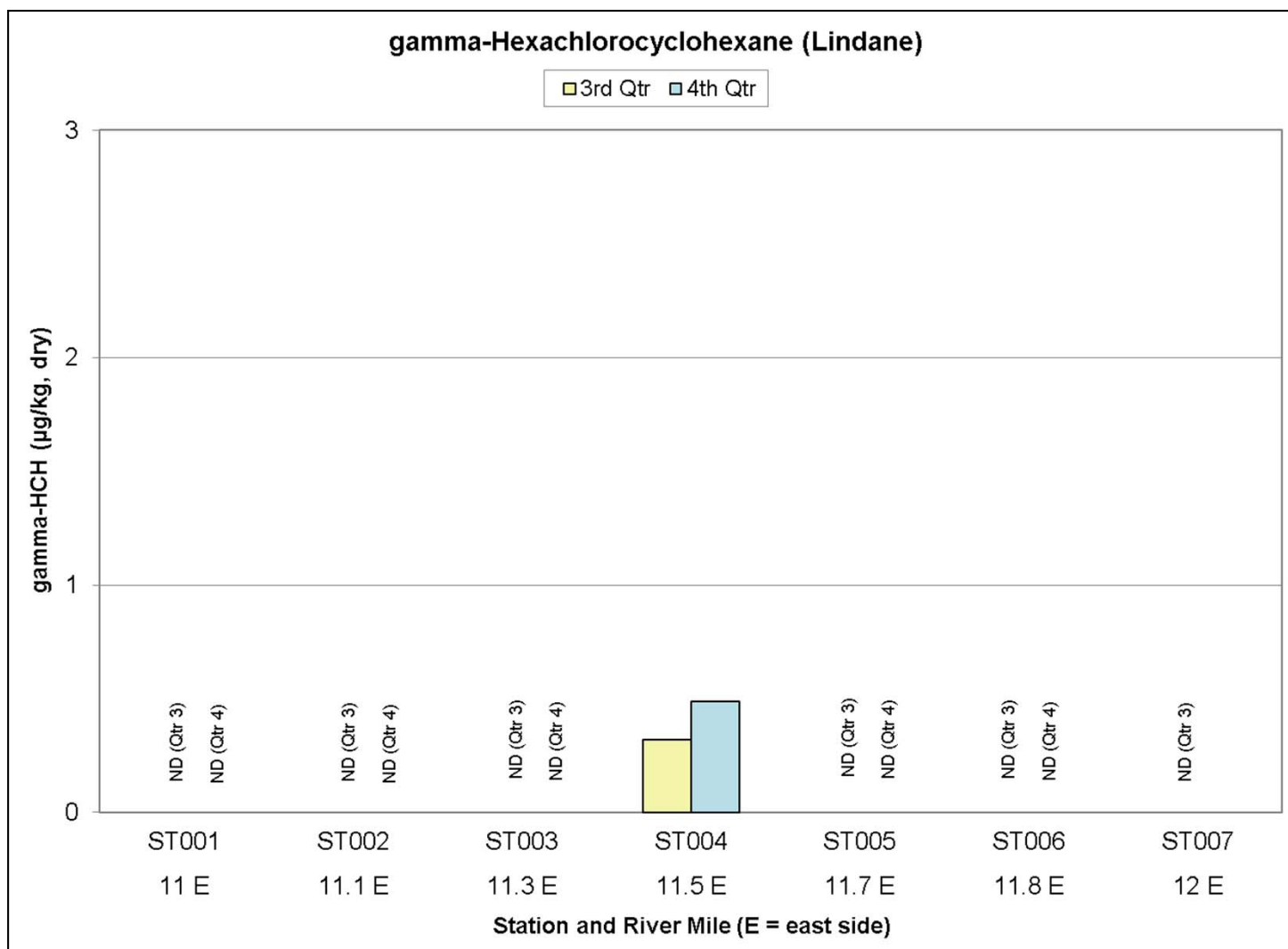
**Figure D2.1-16b**  
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 Histogram of Hexachlorobenzene  
 Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

ND = not detected at quarter shown

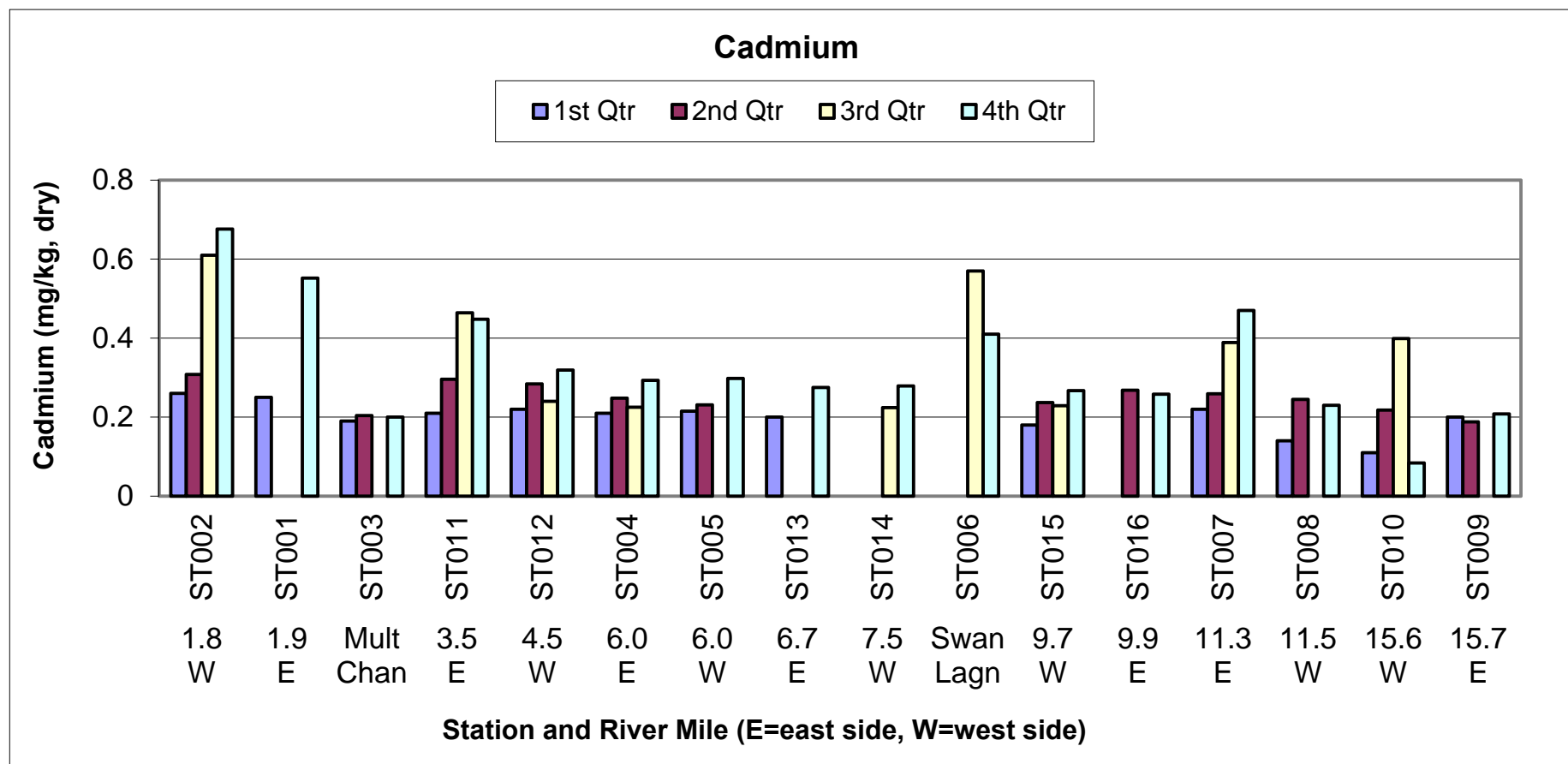
**Figure D2.1-17a**  
 Portland Harbor RI/FS  
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 Histogram of gamma-Hexachlorocyclohexane (Lindane)  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

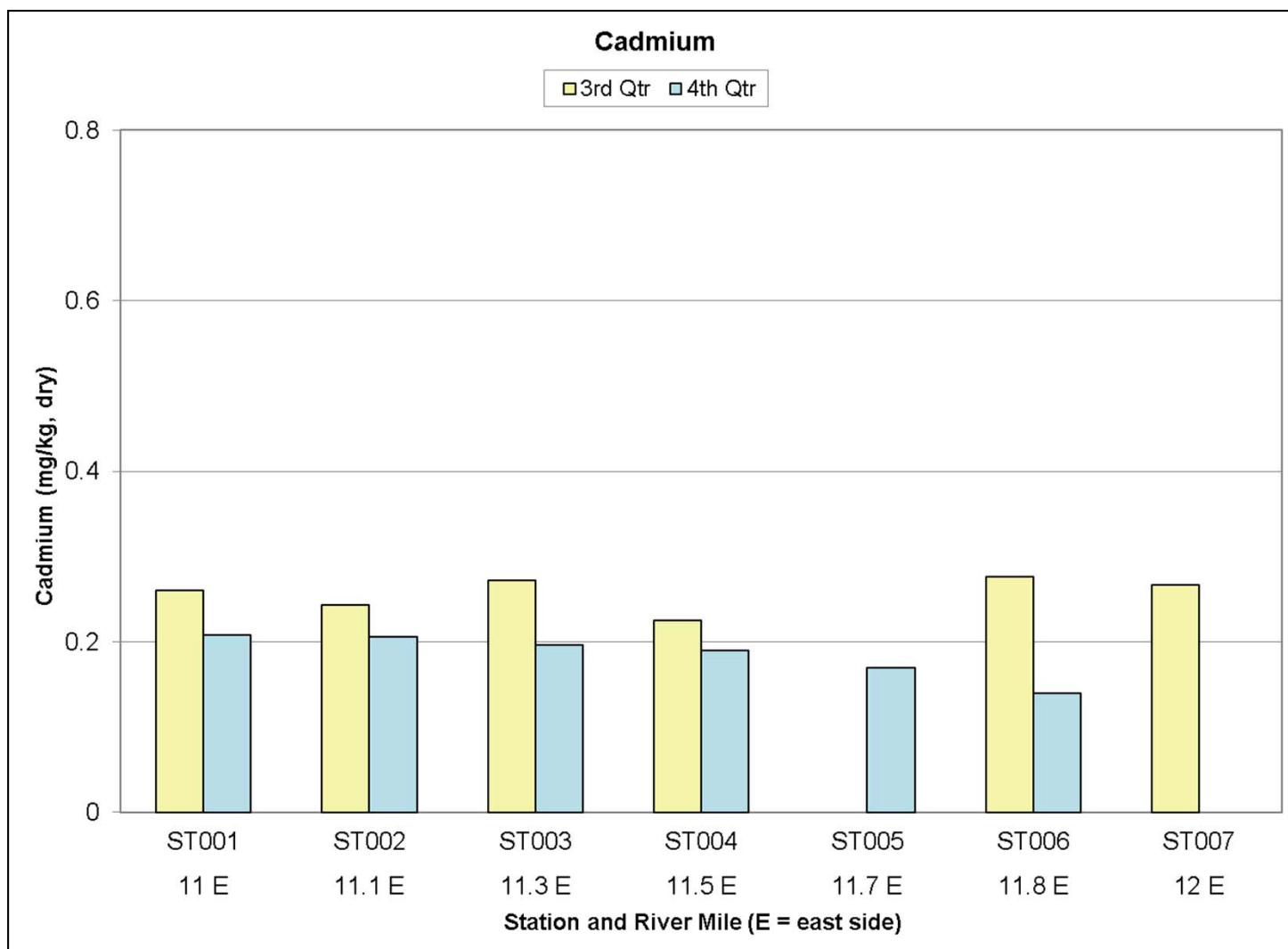
ND = not detected at quarter shown

**Figure D2.1-17b**  
 Portland Harbor RI/FS  
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 Histogram of gamma-Hexachlorocyclohexane (Lindane)  
 Concentrations for In-River Sediment Traps, 2009



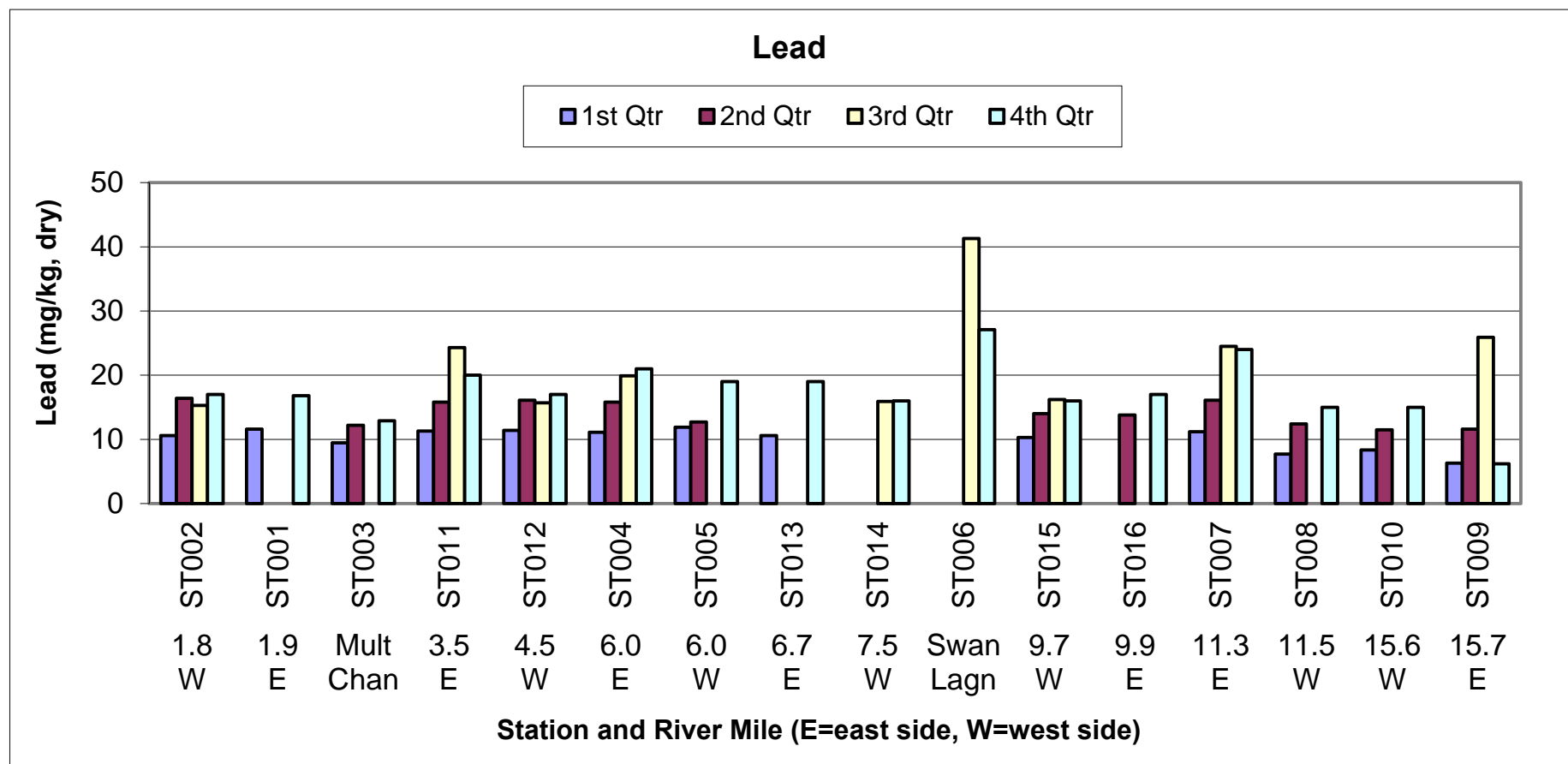
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-18a**  
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 Histogram of Cadmium  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

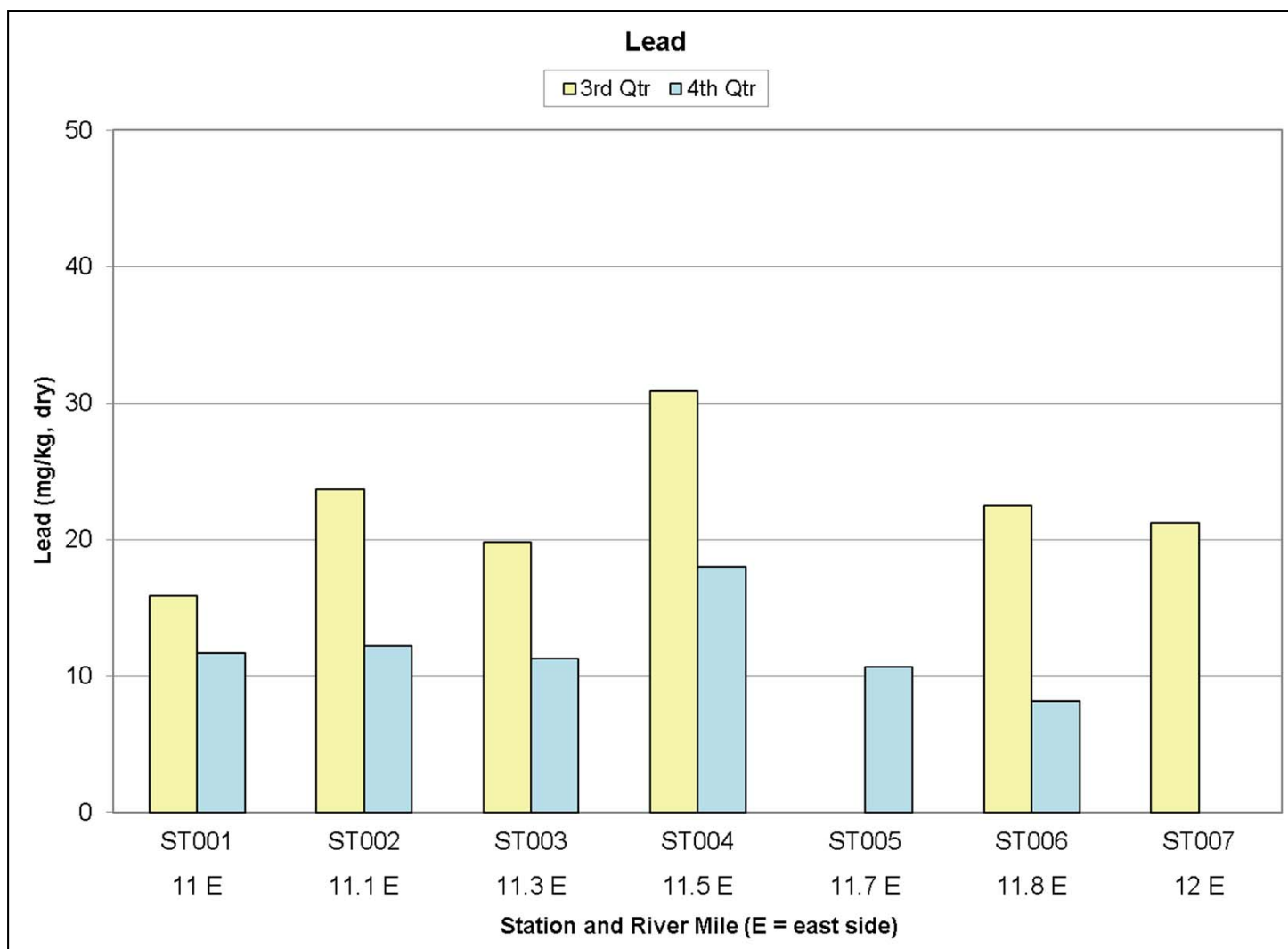
**Figure D2.1-18b**  
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Histogram of Cadmium  
Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

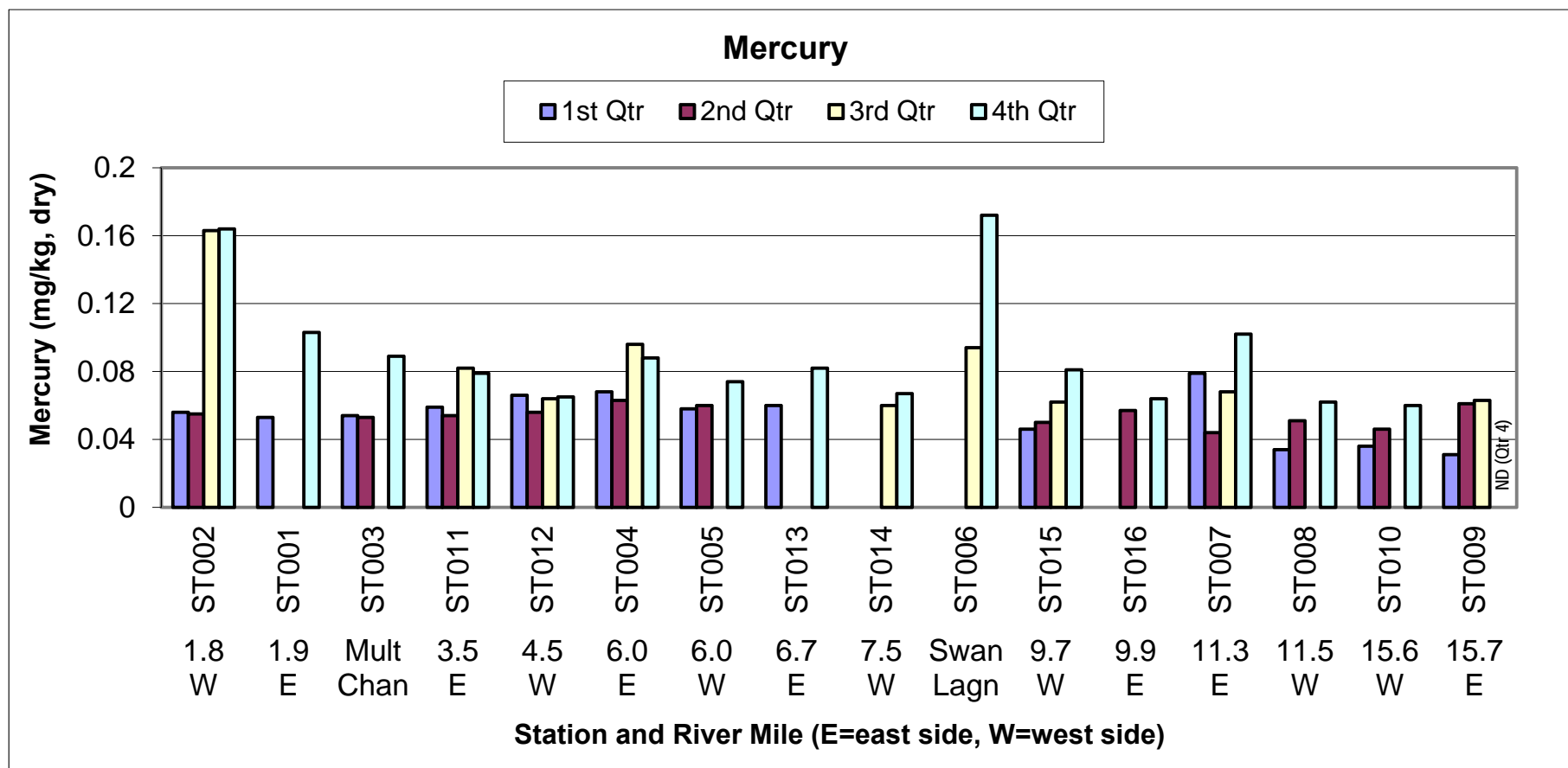
**Figure D2.1-19a**  
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 Histogram of Lead  
 Concentrations for In-River Sediment Traps, 2007





Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

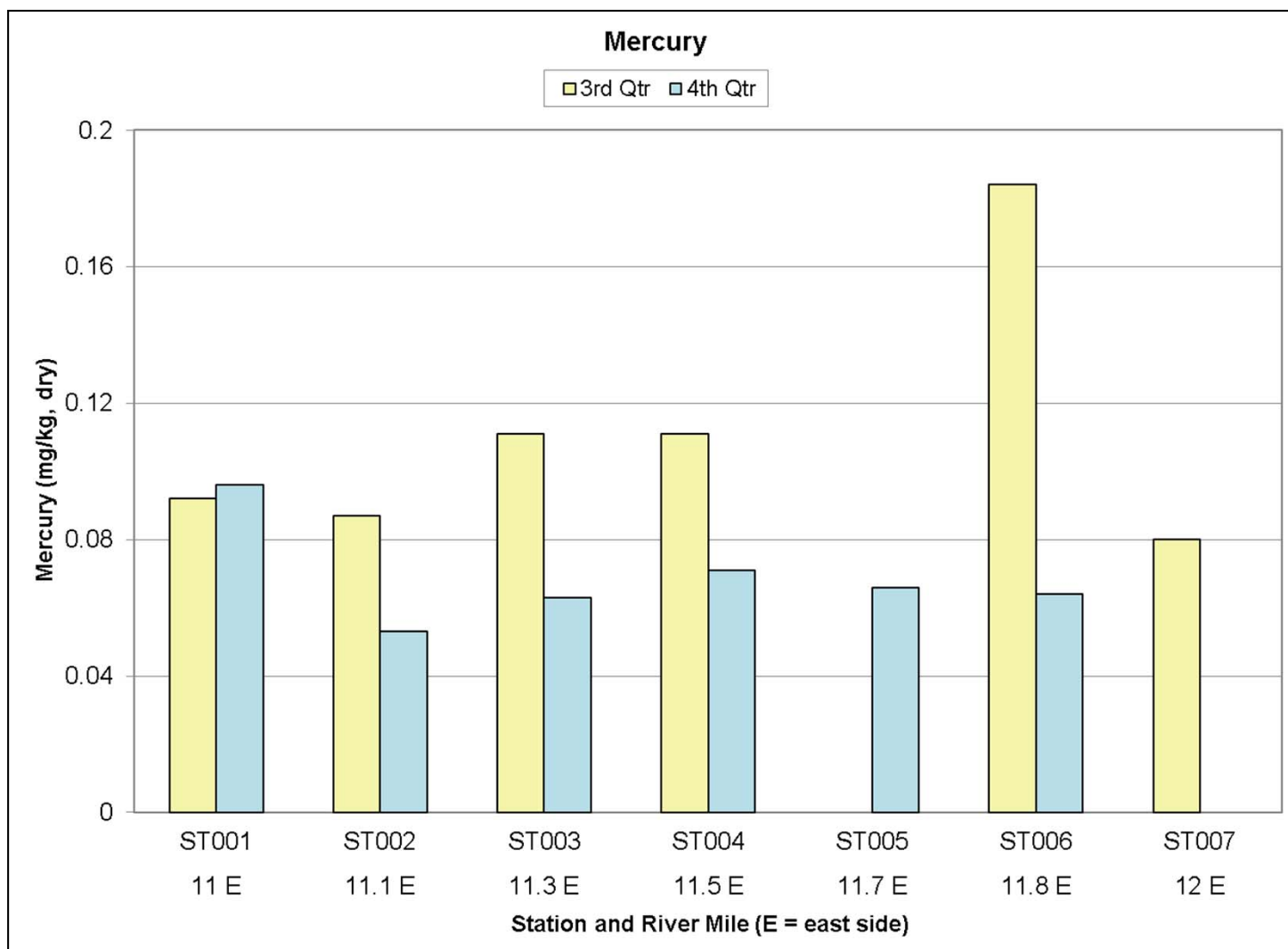
**Figure D2.1-19b**  
Portland Harbor RI/FS  
Remedial Investigation Report  
Histogram of Lead  
Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

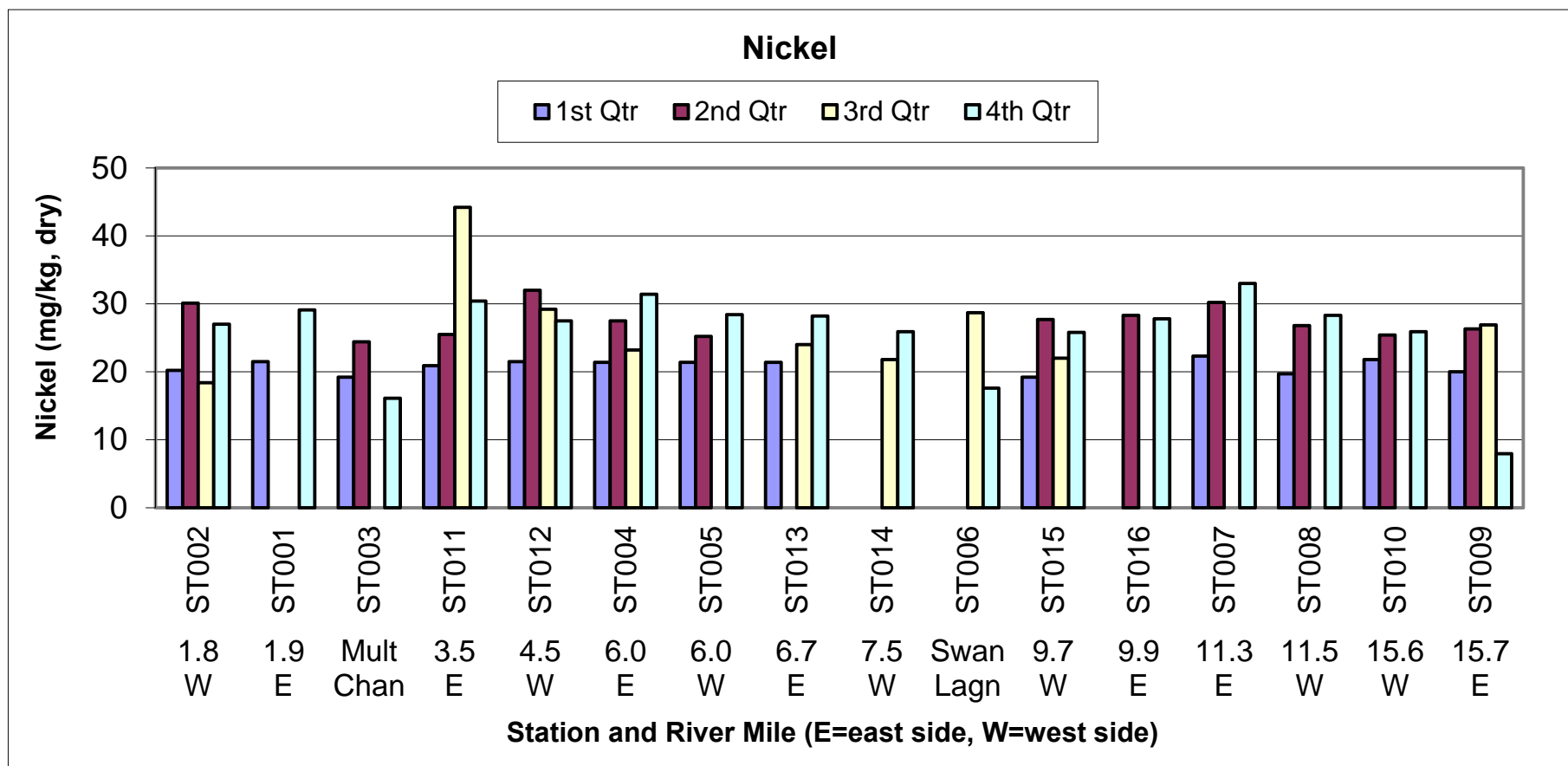
ND = not detected at quarter shown

**Figure D2.1-20a**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Mercury  
 Concentrations for In-River Sediment Traps, 2007



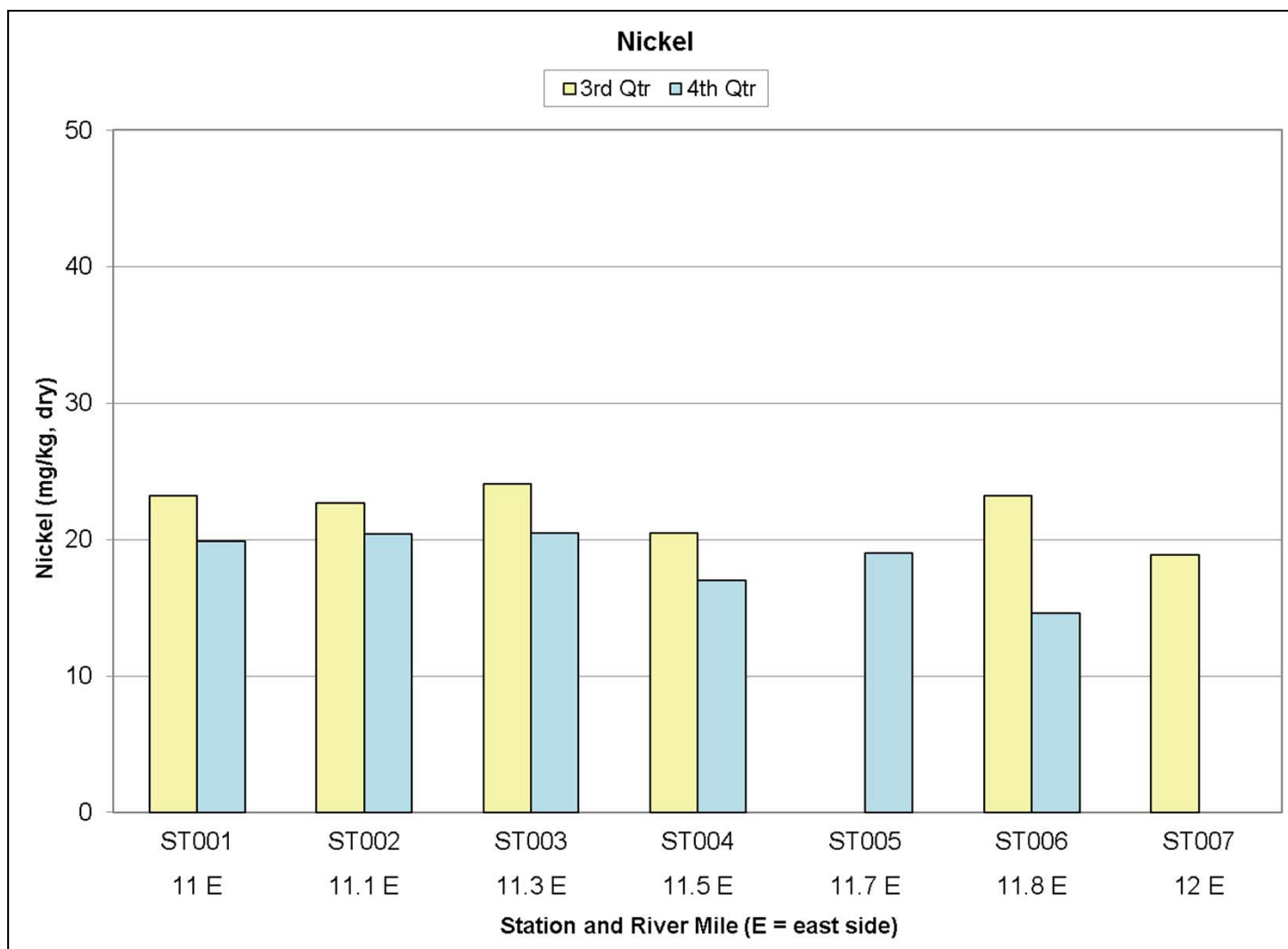
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-20b**  
Portland Harbor RI/FS  
Remedial Investigation Report  
Histogram of Mercury  
Concentrations for In-River Sediment Traps, 2009



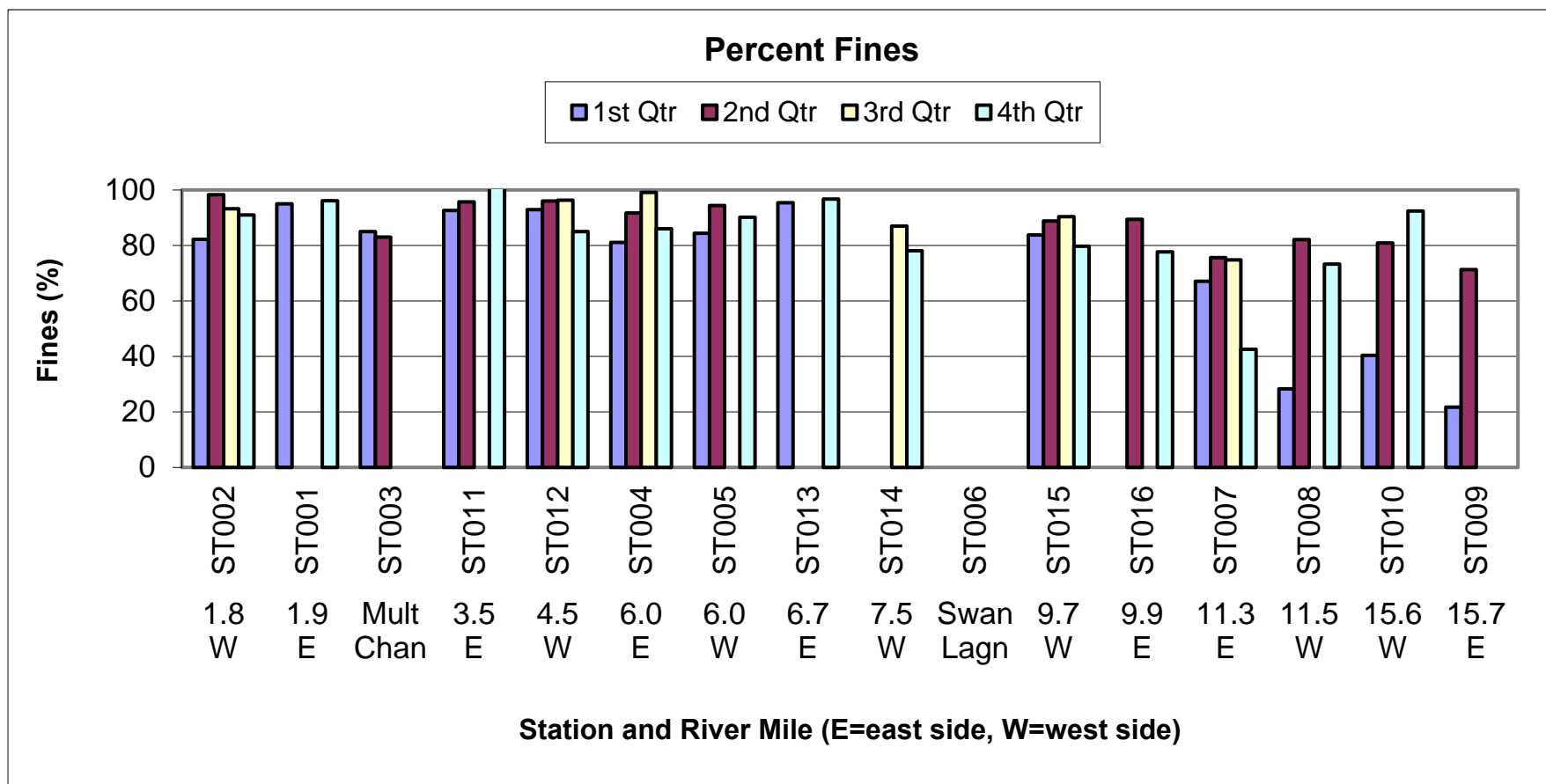
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-21a**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Nickel  
 Concentrations for In-River Sediment Traps, 2007



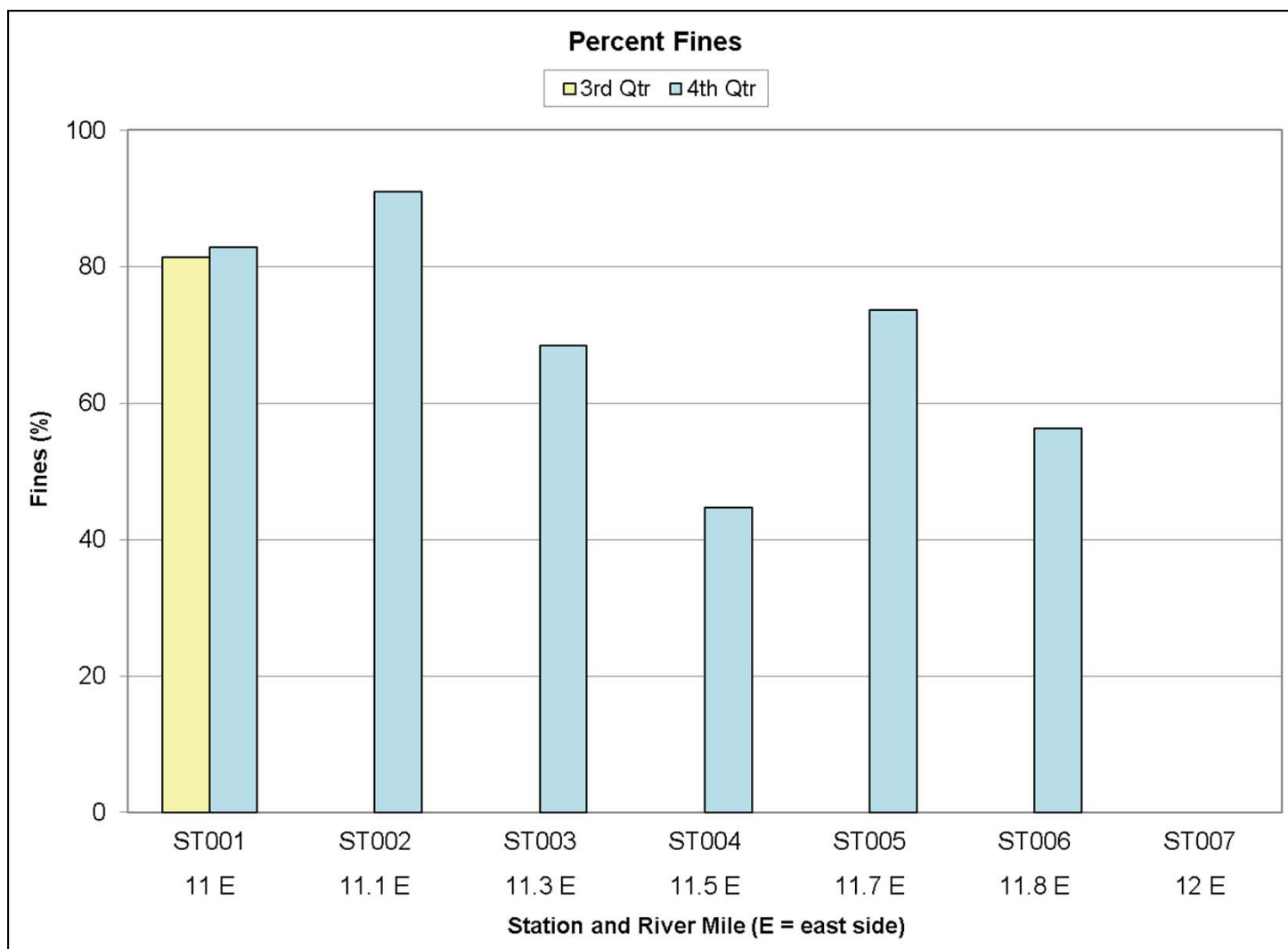
Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-21b**  
Portland Harbor RI/FS  
Remedial Investigation Report  
Histogram of Nickel  
Concentrations for In-River Sediment Traps, 2009



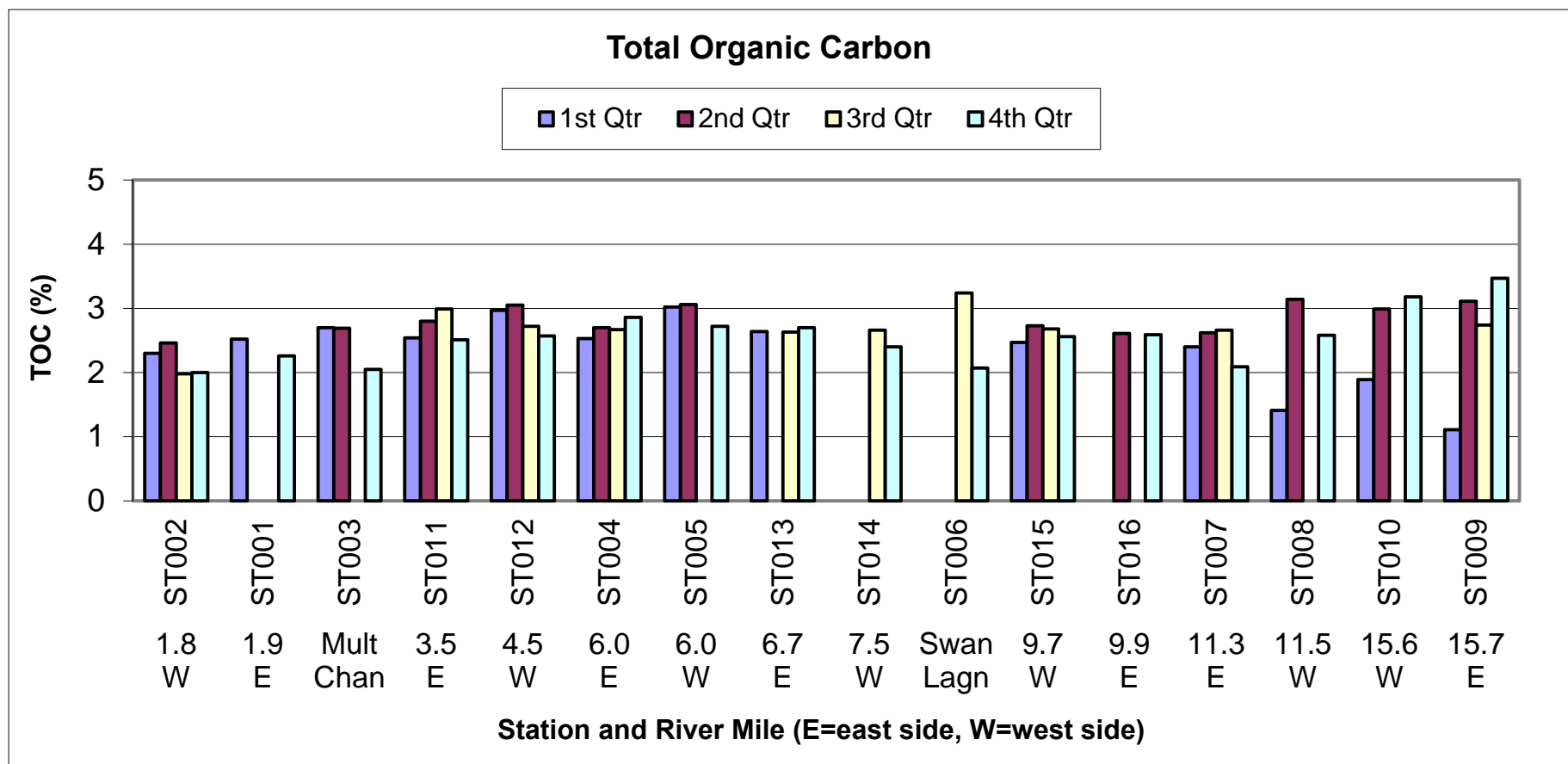
Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-22a**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Percent Fines  
 Concentrations for In-River Sediment Traps, 2007



Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

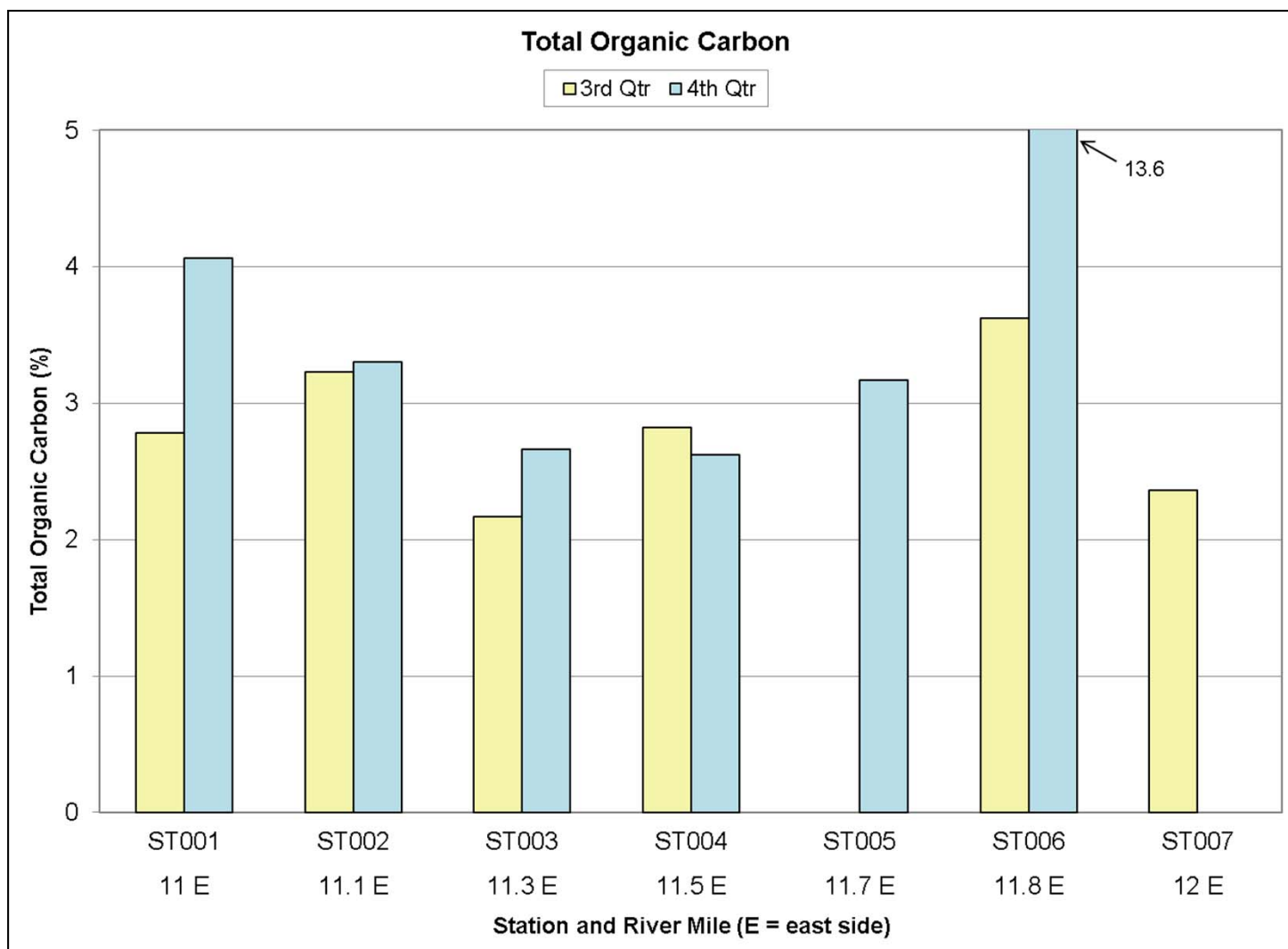
**Figure D2.1-22b**  
Portland Harbor RI/FS  
Remedial Investigation Report  
Histogram of Percent Fines  
Concentrations for In-River Sediment Traps, 2009



Note: Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-23a**  
 Portland Harbor RI/FS  
 Remedial Investigation Report  
 Histogram of Total Organic Carbon  
 Concentrations for In-River Sediment Traps, 2007





Note: Samples were not collected in the 1st and 2nd quarters. Blank spaces within station groupings indicate that traps were lost or the quarterly volume of material collected was not sufficient for analysis.

**Figure D2.1-23b**  
Portland Harbor RI/FS  
Remedial Investigation Report  
Histogram of Total Organic Carbon  
Concentrations for In-River Sediment Traps, 2009